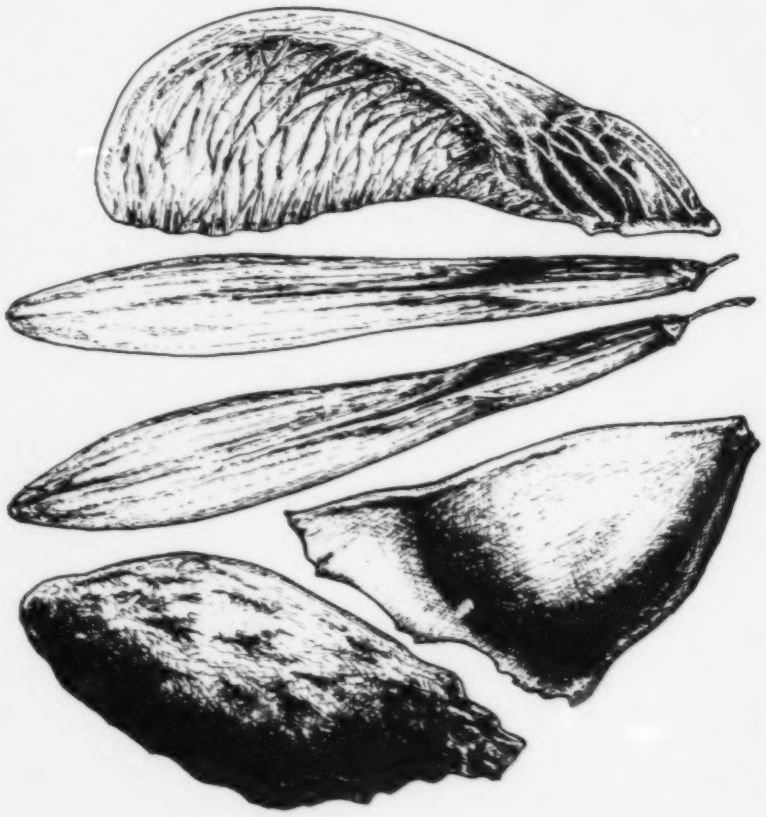
1991 Seed List: Forestry Canada National Seed Bank

B.S.P. Wang and B. Kelley
Petawawa National Forestry Institute • Information Report PI-X-109E/F

Liste des semences forestières - 1991 : Banque nationale de semences de Forêts Canada

B.S.P. Wang et B. Kelley
Institut forestier national de Petawawa • Rapport d'information PI-X-109E/F



Forestry Canada Forêts Canada

Canada

PETAWAWA NATIONAL FORESTRY INSTITUTE

In common with the rest of Forestry Canada, the Petawawa National Forestry Institute has as its objective the promotion of better management and wiser use of Canada's forest resource to the economic and social benefit of all Canadians. Objectives of program activities carried out at the Institute support this goal through discovery, development, demonstration, implementation, and transfer of innovations. Because it is a national institute, particular emphasis is placed on problems that transcend regional boundaries or that require special expertise and equipment that cannot be duplicated in Forestry Canada regional establishments. Such research is often performed in close cooperation with staff of the regional centres, provincial forest services, and the forest industry.

Research initiatives and technical services at the Institute encompass five major activities:

FOREST GENETICS AND BIOTECHNOLOGY — Integrates projects in tree genetics, soil microbiology, micropropagation, molecular genetics, meteorology, and seed research. It also includes the client services and seed bank operations of the National Tree Seed Centre, a long-standing program with extensive international affiliations.

FOREST MANAGEMENT SYSTEMS — This program integrates projects in fire, remote sensing, modelling, growth and yield, and forest pest management to provide research and development for the formulation and demonstration of forest management systems.

NATIONAL FOREST RESOURCE STATISTICS — Provides biological, technical, and socioeconomic information on Canada's forest-based resources. The program involves progressive development of databases and establishment of new databases and software in support of policy development in forestry. The Forest Inventory Program collates information on the forest resource at a national level, maintains the Canadian Forest Resources Data System, and prepares the national forest inventory.

COMMUNICATIONS — Integrates activities of the library, public awareness, information, and editing and publications projects. The Institute is visited by more than 20 000 people every year. There is a Visitor Centre for the public, self-guided tours, and an extensive education project. The national repository of all scientific and technical publications of the Forestry Canada and the principal Forestry Canada publications distribution centre are both located at PNFI.

THE RESEARCH FOREST — Besides natural stands manipulated in a variety of ways for silvicultural research, the 100 km^2 Petawawa Forest contains extensive areas of plantations dating back six decades. Research plantations are a source of growth and yield data derived from cultural experiments, and they are becoming valuable for pedigreed genetic materials for micropropagation and molecular genetics studies. The forest also offers opportunities for short- and long-term testing of forest management strategies.

INSTITUT FORESTIER NATIONAL DE PETAWAWA

Le mandat de l'Institut forestier national de Petawawa (IFNP), comme celui des autres établissements de Forêts Canada, est de promouvoir une meilleure gestion et une utilisation plus rationnelle des ressources forestières du Canada, pour le bien économique et social de tous les Canadiens. Les objectifs des programmes menés à l'Institut appuient ce mandat à travers la découverte, le développement, la démonstration, l'application et le transfert des innovations. En tant qu'institut national, il doit s'attacher à des problèmes qui débordent le cadre régional ou qui nécessitent des compétences particulières de même qu'un équipement non disponible aux installations régionales de Forêts Canada. La plupart du temps, les recherches sont effectuées en étroite collaboration avec le personnel des centres régionaux, des services forestiers des provinces et de l'industrie forestière.

Les travaux de recherche et les services techniques de l'Institut sont regroupés autour de cinq principales activités:

GÉNÉTIQUE FORESTIÈRE ET BIOTECHNOLOGIE — Ce programme encadre des études sur la génétique forestière, la microbiologie, la micropropagation, la génétique moléculaire et la recherche sur les semences. Il comprend également les services à la clientèle et la banque de semences du Centre national de semences forestières. Lié à plusieurs organismes internationaux, ce centre existe depuis longtemps.

SYSTÈMES D'AMÉNAGEMENT FORESTIER — Ce programme intègre en recherche et développement des opérations concernant les incendies de forêt, la télédétection, la météorologie, la modélisation, la croissance, la récolte et le relevé des insectes et des maladies des arbres (RIMA). Il permet ainsi l'élaboration et la démonstration de systèmes d'aménagement forestier.

STATISTIQUES NATIONALES SUR LES RESSOURCES FORESTIÈRES — Ce programme fournit les renseignements biologiques, techniques et socio-économiques sur les ressources forestières du Canada. Il vise le développement des bases de données et l'établissement de nouveaux logiciels et bases de données pour aider à l'élaboration des politiques forestières. Le Programme d'inventaire forestier recueille l'information sur les forêts au niveau national, maintient le Système sur les ressources forestières canadiennes et prépare l'inventaire des forêts du Canada.

COMMUNICATIONS — Ce programme regroupe les services offerts par la bibliothèque, les travaux touchant la sensibilisation du public, les renseignements, la rédaction-révision et les publications. L'Institut reçoit plus de 20 000 visiteurs chaque année. Le Centre d'accueil, des visites autoguidées et un programme éducatif complet sont ouverts à tous. C'est à l'IFNP que l'on trouve l'entrepôt et le centre de distribution national de toutes les publications scientifiques de Forêts Canada.

LA FORÊT EXPÉRIMENTALE — Outre des peuplements naturels où l'on applique divers traitements dans le cadre des plans de recherche en sylviculture, la Forêt de Petawawa, mesurant 100 km^2, comprend de vastes superficies de plantations âgées de plus de 60 ans. Les plantations expérimentales livrent des données sur la croissance et la récolte à la suite des expériences de culture. Elles fournissent aussi du matériel génétique dont le lignage est répertorié et qui se révèlent de plus en plus utiles pour les études sur la micropropagation et la génétique moléculaire. C'est un lieu par excellence pour mettre à l'essai des stratégies d'aménagement forestier à court et à long termes.

1991 SEED LIST: FORESTRY CANADA NATIONAL SEED BANK/ LISTE DES SEMENCES FORESTIÈRES - 1991 : BANQUE NATIONALE DE SEMENCES DE FORÊTS CANADA

B.S.P. Wang and/et B. Kelley

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ABSTRACT

Information is given on the native and exotic forest tree and shrub seed available for research purposes from the Forestry Canada Seed Bank at the Petawawa National Forestry Institute. It supersedes Forestry Canada's Information Report PI-X-58E/F. Reference is made to the procurement of seed and the maintenance of seed quality.

RÉSUMÉ

Ce rapport fournit des renseignements sur les semences d'arbres et arbustes, indigènes ou exotiques, que l'on peut se procurer pour fins de recherches à la Banque de semences de Forêts Canada, à l'Institut forestier national de Petawawa. Le présent document succède au rapport d'information PI-X-58E/F. La façon de procurer les semences et de maintenir leur qualité est indiquée.

INTRODUCTION

Forest research is long term and often costly. It is, therefore, important that only seed of known origin and quality be used for species trials, tree breeding, genetics and biotechnology studies, and other silvicultural experiments. To this end, the National Tree Seed Centre at the Petawawa National Forestry Institute holds seed in cold storage at the Seed Bank, and procures from other establishments seed of a wide range of species and geographic origins. Information on indigenous and exotic forest tree and shrub seed available to researchers from the Seed Bank is provided in this report. This report supersedes Information Report PI-X-58E/F (Janas 1985).

SEED PROCUREMENT

The seedlots described in the attached list have been procured in several ways. Some collections were made by PNFI staff and others by cooperators in the Forestry Canada regional research centres, provincial forest services, forest industries, and other federal agencies. Some seedlots were procured through exchange with foreign agencies or purchased from seed dealers in Canada and abroad.

The control of seed origin is maintained by collecting from natural stands at identified locations only, or from planted trees of known origin. The control and identification of seed origin have been described by Wang (1973).

Unless otherwise requested, all seed is collected in fair to good crop years to ensure high quality and an appropriate genetic sample of the population.

SEED QUALITY

Proper control of seed quality will minimize confounding effects and increase confidence in research results. Control of seed quality at the National Tree Seed Centre starts at the time of collection and is continuous through careful handling and curing of cones and fruit, as well as processing, testing, and storage of seed (Wang 1973). Seedlots in the Seed Bank are suitable for provenance research, for example, and in many cases were collected in collaboration with geneticists in Forestry Canada's regional research centres across Canada.

INTRODUCTION

Comme la recherche forestière est une activité de longue haleine et souvent coûteuse, il importe que seules les semences d'origine et de qualité connues servent aux essais sur les espèces, à l'amélioration génétique des arbres, aux études en biotechnologie et aux autres expériences de nature sylvicole. Pour ce faire, le Centre national de semences forestières à l'IFNP (Institut forestier national de Petawawa) veille à garder des semences dans les chambres frigorifiques et obtient de différents organismes des graines d'essences très variées et de pays très divers. Le présent rapport montre comment les chercheurs, par l'intermédiaire de la Banque de semences, peuvent se procurer ces semences d'arbres et arbustes forestiers indigènes ou exotiques. Ce document succède à l'édition antérieure (PI-X-58E/F; Janas, 1985).

OBTENTION DES SEMENCES

Les lots de semences décrits dans la liste ci-jointe ont été obtenus de plusieurs façons. Quelques-uns ont été fournis par l'IFNP, d'autres par des collaborateurs des centres de recherches régionaux de Forêts Canada ou des services forestiers provinciaux, des industries forestières et d'autres organismes fédéraux. Quelques lots proviennent des échanges avec des organismes étrangers ou bien furent achetés des commerçants aux marchés canadiens et internationaux.

Le contrôle de l'origine des semences est assuré en récoltant les semences uniquement dans des peuplements naturels dont la localisation est connue ou sur des arbres plantés d'origine aussi connue. Les méthodes de surveillance et d'identification de l'origine des semences ont été décrites par Wang (1973).

Sauf avis contraire, toutes les semences sont récoltées au cours des années où la production est de moyenne à bonne, afin d'assurer la qualité et d'obtenir un échantillon représentatif de l'ensemble des gènes de la population.

QUALITÉ DES SEMENCES

Un contrôle adéquate de la qualité des semences permet de réduire au minimum les sources d'erreurs et d'augmenter d'autant la fiabilité des résultats de recherches. Au Centre national

USING THE SEED LIST

Species included in the Seed Bank list and the corresponding number of seedlots for each are provided in the "Species listing" section.

Of the species represented in the Bank, we list only those that have seeds with a demonstrated ability to retain viability over a number of years of storage in the facilities available. Seeds that are difficult to store (e.g., *Acer saccharinum*, *Juglans nigra*, and *Quercus* spp.) can be provided by special collection upon request. The list is arranged in alphabetical order by genus, species, and variety. Nomenclature is based on Native Trees of Canada (Hosie 1979) for native species and, as far as possible, the Manual of cultivated trees and shrubs hardy in North America (Rehder 1940) for exotic species.The abbreviation for country of origin was based on the ISI codes (1981).

To assist in the selection of seedlots, information on year of collection, location (or a brief description of source in the case of plantation or seed orchard stock), collection type (see legend for details), latitude, longitude, and elevation is given in the list. Information on 1000-seed weight and germination is presented when available.

Persons requesting seed for research purposes should specify species, Seed Bank number, and numbers of seedlings to be raised. The required amount of seeds will be calculated and despatched accordingly. Alternative selections should also be provided.

ACKNOWLEDGMENTS

We thank Mr. E.L. Gilchrist, technician in charge of seed collection and processing, for his assistance and cooperation, and many cooperators in Canada and abroad for seed procurement.

de semences forestières, on excerce ce contrôle de manière soucieuse dès la récolte, en le poursuivant tout au long du processus de manutention, de traitement et de soins des cônes, des semences ou des fruits (Wang, 1973). Les lots de la Banque de semences constituent entre autre un matériel biologique de choix pour la recherche sur les provenances. Dans plusieurs cas, ils ont été préparés en collaboration avec des généticiens des centres de recherches de Forêts Canada à travers le pays.

UTILISATION DE LA LISTE DES SEMENCES

Les essences dont les semences sont en banque apparaissent dans la section «Liste des essences», chacune ayant son numéro correspondant.

Seules les espèces dont les semences ont démontré qu'elles pouvaient survivre un certain nombre d'années en entreposage, figurent sur la liste. Dans le cas d'espèces dont les semences sont difficiles à entreposer (par ex. *Acer saccharinum*, *Juglans nigra* et *Quercus* spp.) une récolte spéciale pourra être faite sur demande. Les semences sont d'abord classées par ordre alphabétique selon le genre, l'espèce et la variété. La nomenclature adoptée est celle des Arbres indigènes du Canada (Hosie, 1980) en ce qui concerne les espèces indigènes et, dans la mesure du possible, celle du Manual of cultivated trees and shrubs hardy in North America (Rehder, 1940) pour les espèces exotiques. Pour les abréviations des noms de pays d'origin on s'est servi des codes des noms de pays établis par l'Organisation internationale de la normalisation (ISO, 1981).

Afin de faciliter le choix des lots de semences, la liste indique l'année et le lieu de la récolte (ou une brève description de l'origine des graines si elles proviennent d'une plantation ou d'un verger à graines), le type de récolte (voir les «Abréviations pour la liste des semences») ainsi que sa latitude, sa longitude et son altitude. Lorsqu'il est possible, le poids de 1000 graines et le taux de germination y sont indiqués.

Ceux qui demandent des semences pour la recherche doivent préciser l'essence avec son numéro en banque et le nombre de semis que l'on veut faire croître. Ensuite, nous calculerons le nombre correspondant de semences qui en est nécessaire.

Veuillez aussi spécifier d'autres choix au cas où certains lots seraient épuisés.

REMERCIEMENTS

Nous remercions vivement M. E.L. Gilchrist, technicien chargé de collecte et de traitement de graines, pour son aide et coopération, de même que les nombreux coopérants au Canada et à l'étranger qui ont contribué à la collection de semences forestières.

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Species listing/Liste des essences

Species List/Liste des essences

Latin	English	Français	Number of seedlots per species/ Nombre de lots de semences par essence
Abies alba	European silver fir	sapin blanc	2
Abies amabilis	amabilis (Pacific silver) fir	sapin gracieux	3
Abies balsamea	balsam fir	sapin beaumier	33
Abies fraseri	Fraser fir	sapin de Fraser	1
Abies grandis	grand fir	sapin grandissime	8
Abies homolepis	Nikko fir	sapin de Nikko (sapin à courtes feuilles)	1
Abies lasiocarpa	alpine fir	sapin subalpin	8
Abies nephrolepis	east Siberian fir	sapin de Sibérie orientale	1
Abies sachalinensis	Sachalin fir	sapin de Sakhalin	2
Abies veitchii	veitch fir	sapin de Veitch	2
Acer barbinerve			1
Acer ginnala	amur maple	érable ginnala	1
Acer glabrum var. *douglasii*	douglas maple	érable nain	3
Acer macrophyllum	bigleaf (Oregon) maple	érable grandifolié	4
Acer mono	painted mono maple	érable coloré	1
Acer negundo	Manitoba maple; box-elder	érable négundo	2
Acer pensylvanicum	striped maple; moosewood	érable de Pennsylvanie	3
Acer platanoides	Norway maple	érable de Norvège (érable platanoïde)	5
Acer pseudoplatanus	sycamore maple	érable sycomore	2
Acer pseudosieboldianum			1
Acer rubrum	red (soft) maple	érable rouge	42
Acer saccharum	sugar (hard) maple	érable à sucre	2
Acer spicatum	mountain maple	érable à épis	4
Acer tataricum	Tatarian maple	érable de Tartarie	1
Acer tegmentosum			1
Acer ukurunduense			1
Alnus cordata	Italian alder	aulne d'Italie	3
Alnus cremastogyne			1
Alnus crispa	American green alder	aulne vert d'Amérique	44
Alnus firma Sieb et Zucc.			2
Alnus glutinosa	black alder	verne (aulne noir)	11
Alnus hirsuta	Manchurian alder	aulne de Mandchourie	2
Alnus hirsuta turcz var. *microphylla* Nakai			1
Alnus incana	grey (European) alder	aulne blanc	4
Alnus japonica			1
Alnus jorullensis			1
Alnus nepalensis			1
Alnus rubra	red (Oregon) alder	aulne rouge	60
Alnus rugosa	speckled alder	aulne rugueux	48
Alnus sinuata	sitka alder	aulne de sitka	23
Alnus tenuifolia	mountain alder	aulne à feuilles minces	14
Alnus viridis	green alder	aulne vert (aulne des Alpes)	3
Austrocedrus chilensis	Chilian cedar	cèdre du Chili	3
Betula alleghaniensis	yellow birch	bouleau jaune	45
Betula kirghisorum caucasus			1
Betula lenta	cherry birch	bouleau flexible	1
Betula occidentalis	water (black) birch	bouleau fontinal (bouleau d'eau)	2
Betula papyrifera	white (paper) birch	bouleau à papier	24
Betula pendula	silver (weeping) birch	bouleau pleureur	19
Betula platyphylla	Asian (Japanese) white birch	bouleau à larges feuilles	2
Betula populifolia	grey birch	bouleau gris	1
Betula pubescens	downy birch	bouleau pubescent	7
Betula raddeana caucasus			1
Caragana arborescens	Siberian pea-shrub; pea-tree	arbre aux pois	4
Carpinus caroliniana	blue-beech; hornbeam	charme de Caroline (charme d'Amérique)	2
Carya cordiformis	bitternut hickory	caryer cordiforme	1
Carya glabra	pignut hickory	caryer glabre	2
Carya ovata	shagbark hickory	caryer ovale	2

Latin	English	Français	Number of seedlots per species/ Nombre de lots de semences par essence
Catalpa speciosa	catalpa	catalpa	1
Cercis canadensis	redbud	gainier rouge (gainier du Canada)	1
Chacaya trinervis			1
Chamaecyparis lawsoniana	Port-Orford-cedar; lawson cypress	cyprès de Lawson	1
Chamaecyparis nootkatensis	yellow cypress; Alaska cedar	cyprès jaune	2
Fagus grandifolia	American beech	hêtre à grandes feuilles (hêtre d'Amérique)	6
Fagus sylvatica	European beech	hêtre européen (fayard)	1
Fitzroya cupressoides	Patagonian cypress	cyprès de Patagonie (Alerce)	1
Fraxinus americana	white ash	frêne blanc (d'Amérique)	73
Fraxinus chinensis	Chinese ash	frêne de Chine	1
Fraxinus excelsior	European ash	grand frêne	2
Fraxinus nigra	black (swamp) ash	frêne noir	9
Fraxinus pennsylvanica	red ash	frêne rouge	70
Juglans cinerea	butternut	noyer cendré	3
Juglans nigra	black walnut	noyer noir	2
Juniperus communis	common juniper	genévrier commun	2
Juniperus virginiana	eastern red cedar; juniper	genévrier rouge	4
Koelreuteria paniculata	goldenrain tree	arbre à vernis de Chine (arbre à pluie d'or	1
Keteleeria chien-peii flous			1
Larix decidua	European larch	mélèze d'Europe	13
Larix decidua var. *sudetica*			1
Larix eurolepis	Dunkeld larch	mélèze de Dunkeld	6
Larix gmelini	Dahurian larch	mélèze de Dahurie	5
Larix laricina	tamarack; eastern larch	mélèze laricin (ou d'Amérique)	21
Larix leptolepis	Japanese larch	mélèze du Japon	11
Larix occidentalis	western larch	mélèze occidental	2
Larix sibirica	Siberian larch	mélèze de Sibérie	1
Liriodendron tulipifera	tulip-tree; yellow poplar	tulipier d'Amérique	2
Magnolia acuminata	cucumber-tree	magnolier acuminé	1
Maytenus boaria			2
Nothofagus dombeyi	Dombey's southern beech	merisier du Chili	3
Nothofagus nervosa			2
Nothofagus obliqua	roble beech	roble	3
Nothofagus pumilio	lenga; roble blanco		1
Ostrya virginiana	ironwood; hop-hornbeam	ostryer de Virginie	2
Paulownia fargesii	Farges paulownia	paulownia de Farges	1
Picea abies	Norway spruce	épinette (épicéa) de Norvège	49
Picea asperata	dragon spruce; Chinese spruce	épicéa de Chine	1
Picea engelmannii	Engelmann spruce	épinette (épicéa) d'Engelmann	7
Picea glauca	white spruce	épinette blanche (épicéa blanc)	772
Picea glehnii	Sakhalin spruce	épinette (épicéa) de Sakhaline	1
Picea jezoensis	Hondo (Yeddo) spruce	épicéa de Yédo	1
Picea jezoensis var. *microsperma*			1
Picea koraiensis (Picea koyamai)	Koyama spruce	épinette (épicéa) de Koyama	3
Picea mariana	black spruce	épinette noire (épicéa noir)	67
Picea omorika	Serbian spruce	épicéa de Serbie	1
Picea orientalis	oriental spruce	épicéa d'Orient	1
Picea pungens var. *glauca*	Colorado blue spruce	épinette (épicéa) du Colorado	3
Picea rubens	red spruce	épinette (épicéa) rouge	28
Picea schrenkiana	Schrenk's spruce	épinette (épicéa) de Schrenk	2
Picea sitchensis	Sitka spruce	épinette (épicéa) de Sitka	28
Picea wilsonii	Wilson spruce	épinette (épicéa) de Wilson	1

Latin	English	Français	Number of seedlots per species/ Nombre de lots de semences par essence
Pinus albicaulis	whitebark (scrub) pine	pin albicaule	2
Pinus banksiana	jack pine	pin gris	51
Pinus bungeana	lacebark pine	pin Napoléon (pin à écorce en dentelles)	1
Pinus caribaea var. *caribaea*	Carribean pine	pin des Carraïbes	2
Pinus caribaea var. *hondurensis*			1
Pinus cembra	Swiss stone pine (Arolla pine)	Arolle (pin cembro)	4
Pinus cembra var. sibirica	Siberian Swiss tone pine	pin cembro de Sibérie	2
Pinus contorta var. *contorta*	shore pine	pin tordu	3
Pinus contorta var. *latifolia*	lodgepole pine	pin lodgepole	61
Pinus contorta var. *murrayana*			1
Pinus coulteri	big-cone (Coulter) pine	pin de Coulter (pin à gros cônes)	1
Pinus densata			1
Pinus densiflora	Japanese red pine	pin rouge du Japon	4
Pinus elliottii	slash pine (American pitch pine)	pitchpin américain	1
Pinus halepensis	Aleppo pine (Jerusalem pine)	pin d'Alep (pin de Jérusalem)	1
Pinus heldreichii var. *leucodermis*			1
Pinus kesiya			2
Pinus koraiensis	Korean pine	pin de Corée	1
Pinus lambertiana	sugar pine	pin à sucre (pin de Lambert)	1
Pinus merkusii			2
Pinus monticola	western white (silver) pine	pin argenté	10
Pinus mugo var. *pumilio*			1
Pinus mugo var. *rostrata*	tree Swiss pine	pin à crochets	1
Pinus muricata	bishop pine	pin de Bishop (pin de Californie)	1
Pinus nigra	Austrian pine	pin d'Autriche	8
Pinus nigra var. *koekelare*			1
Pinus oocarpa			3
Pinus pumila	dwarf Siberian pine	pin nain de Sibérie	2
Pinus resinosa	red (Norway) pine	pin rouge (pin d'Amérique)	40
Pinus rigida	pitch pine	pin rigide	47
Pinus roxburghii	long-leaved Indian pine, chir pine	pin asiatique à longues aiguilles (pin Emodi)	1
Pinus sibirica			4
Pinus strobiformis	southwestern white pine		1
Pinus strobus	eastern white (Weymouth) pine	pin blanc	102
Pinus strobus var. chiapensis			1
Pinus sylvestris	Scotch (Scots) pine	pin sylvestre	52
Pinus sylvestris var. *mongolica*			4
Pinus sylvestris var. *rigensis*	Riga pine	pin de Riga	1
Pinus tabulaeformis	Chinese pine	pin de Chine	2
Pinus thunbergii	Japanese black pine	pin noir du Japon	3
Pinus wallichiana	Himalayan (Bhutan) pine	pin de l'Himalaya (pin du Bhoutan)	3
Pladycladus orientalis			1
Platanus occidentalis	American plane (sycamore)	platane occidental	1
Populus deltoides var. occidentalis	plains cottonwood		2
Populus grandidentata	largetooth aspen	peuplier à grands dents	5
Populus tremuloides	trembling aspen	peuplier faux-tremble	6
Prunus avium	mazzard	merisier (cerisier des oiseaux)	1
Prunus pensylvanica	pin cherry	petit merisier	1
Prunus serotina	black cherry	cerisier tardif	3
Pseudotsuga menziesii	douglas-fir	douglas taxifolié (sapin de Douglas)	11
Pseudotsuga menziesii var. *glauca*	interior douglas-fir	douglas bleu (sapin bleu de Douglas)	7
Ptelea trifoliata	hop-tree	ptéléa trifolié	1

Latin	English	Français	Number of seedlots per species/ Nombre de lots de semences par essence
Rhamnus frangula	glossy buckthorn	bourgène, nerprun noir (nerprun bourdaine)	1
Robinia pseudoacacia	black locust	acacia blanc (robinier faux acacia)	4
Sabin chinensio			1
Sambucus nigra	European elder	sureau noir (sureau d'Europe)	1
Sambucus racemosa	European red elder	sureau rouge	1
Schinus patagonicus			1
Sequoiadendron giganteum	giant sequoia	séquoiadendron (séquoia géant de Californie)	1
Sorbus americana	American mountain ash	sorbier d'Amérique	1
Sorbus aucuparia	European mountain ash; Rowan tree	sorbier des oiseleurs	1
Thuja occidentalis	eastern white cedar	thuya occidental	16
Thuja plicata	western red cedar	thuya géant	5
Tilia americana	basswood; American linden	tilleul d'Amérique	5
Tilia x euchlora	Crimean linden	tilleul de Crimée	1
Tsuga canadensis	eastern hemlock	pruche du Canada	10
Tsuga heterophylla	western hemlock	pruche occidentale	4
Tsuga mertensiana	mountain hemlock	pruche subalpine (pruche/tsuga de Mertens)	4
Ulmus americana	white (American) elm	orme (blanc) d'Amérique	6
Ulmus glabra	Scotch elm	orme de montagne	1
Ulmus laevis	European white elm	orme diffus (lisse)	1
Viburnum opulus	European cranberry	viorne obier	1
TOTAL NUMBER OF SEEDLOTS IN SEEDBANK/ NOMBRE TOTAL DE LOTS DE SEMENCES DANS LA BANQUE			2232

LEGEND FOR PNFI SEED LIST/
ABRÉVIATIONS POUR LA LISTE DES SEMENCES DE L'IFNP

Column Name/ Nom de la colonne	Meaning/ Signification
SEED BANK NUMBER	• Seed bank number assigned to an individual seedlot by the National Tree Seed Centre • Numéro assigné à un lot de semences en banque par le Centre national de semences forestières
YEAR COLL	• Year of collection • Année de la récolte
PROVENANCE	• Usually the name of the nearest identifiable geographic location to a collection site • Habituellement, le nom de l'endroit géographique identifiable situé le plus près du lieu de la récolte
PV	• Canadian province or American state (consult Appendix B for full name) • Province canadienne ou État américain (consulter l'annexe B pour le nom complet)
CTRY	• Official country code (see Appendix A) • Code officiel du pays (voir l'annexe A)
LAT	• Latitude of collection in degrees and minutes • Latitude du lieu de la récolte en degrés et minutes
LONG	• Longitude of collection in degrees and minutes • Longitude du lieu de la récolte en degrés et minutes
ELEV	• Elevation of collection in metres • Altitude du lieu de la récolte en mètres
COLL TYPE	• Collection type: 'S' refers to collection from single tree; 'B' indicates bulked or general collection from more than one tree, ( ) gives number of trees from which bulked collection was made; 'SQ' indicates squirrel collection (pertaining to *Pinus rigida*); N/A: not applicable • Type de récolte : 'S' signifie la récolte sur un seul arbre; 'B' indique une récolte générale ou en grande quantité sur plus d'un arbre, ( ) indique le nombre d'arbres sur lesquels on a récolté les semences; 'SQ' indique une récolte par des écureuils (en cas de *Pinus rigida*); N/A : veut dire «sans objet»
1000 SdWt	• Average weight in grams of 1000 seeds • Poids moyen (en grammes) de 1000 semences
YEAR TEST	• Year of most recent germination test • Année du test de germination le plus récent
% GERM	• Result from most recent germination test; if blank, no germination information is available • Résultat du test de germination le plus récent; un espace vide signifie que l'on ne dispose pas de renseignements sur la germination
A.F.E.S.	• Acadia Forest Experiment Station • Station d'expérimentation forestière
P.N.F.I.	• Petawawa National Forestry Institute • Institut forestier national de Petawawa (IFNP)
C.F.B.	• Canadian Forces Base • Base des Forces canadiennes
SPECIES	• Species code • Code d'essence

Column Name/ Nom de la colonne	Meaning/ Signification
REMARKS/REMARQUES	
PL	• indicates seed collected from planted tree source is given if available • signifie que les graines sont obtenues d'un arbre planté; la source est donnée si elle est disponible
First kiln = Étuve - une fois	• seed extracted after cones processed in kiln one time • signifie que les graines sont extraites après que les cônes eurent été traités une fois en étuve
Second kiln = Étuve - deux fois	• seed extracted after cones processed in kiln twice • signifie que les graines sont extraites après que les cônes eurent été traités deux fois en étuve
Third kiln = Étuve - trois fois	• seed extracted after cones processes in kiln three times • signifie que les graines sont extraites après que les cônes eurent étés traités trois fois en étuve
GPC	• gene pool conservation • conservation des pools géniques
RF	• reserved in the freezer • conservé au congélateur
INT. SP	• introduced species • essences étrangères
RSB	• reserved in the Seed Bank on special request • réservé dans la Banque de semences forestières, disponible sur demande spéciale
Imp., Improved	• improved species • essence améliorée
Mostly hybrid	• mostly hybrid species • essences hybrides en majorité
New cones	• new cones • jeunes cônes
Old cones	• old cones • cônes mûres

Seed List/Liste des semences

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
SPECIES 1.100 ABIES ALBA (European silver fir)												
80006.0	1983	GERARDMER		FRA	48.04	6.53E		N/A	40.52	1991	23.5	
8380643.0	1983	MARGERIDE MOUNTAINS		FRA	45.00	3.30F		N/A	43.95	1990	18.5	
SPECIES 1.200 ABIES AMABILIS [amabilis (Pacific silver) fir]												
8370636.0	1983	TAYLOR RIVER	BC	CAN	49.19	125.28	250	B(10)	25.96	1990	20.5	
8570209.0	1985	VALENTINE	BC	CAN				N/A	47.80	1990	46.5	
8871104.0	1988	FALLS LAKE	BC	CAN	49.37	121.05		B	44.84	1991	59.2	
SPECIES 1.300 ABIES BALSAMEA (balsam fir)												
6632380.0	1966	P.N.F.I.	ON	CAN	45.58	77.24	160	B	9.18	1990	13.8	
7034180.0	1970	OTTAWA	ON	CAN	45.25	75.34	67	S	7.82	1984	31.0	
7034190.0	1970	OTTAWA	ON	CAN	45.25	75.34	74	S	7.48	1988	41.5	
7034230.0	1970	OTTAWA	ON	CAN	45.25	75.34	67	S	8.76	1988	44.2	
7034240.0	1970	OTTAWA	ON	CAN	45.25	75.34	67	S	8.96	1988	27.0	
7034250.0	1970	OTTAWA	ON	CAN	45.25	75.34	65	S	8.03	1990	19.0	
7311350.0	1973	A.F.E.S.	NB	CAN	46.00	66.15	120	N/A	8.30	1990	54.0	
7311360.0	1973	A.F.E.S.	NB	CAN	46.00	66.15	120	N/A	8.74	1990	72.5	
7432000.0	1974	P.N.F.I.	ON	CAN	45.58	77.24	160	S	9.56	1990	60.2	
7432010.0	1974	P.N.F.I.	ON	CAN	45.58	77.24	160	S	9.62	1990	32.0	
7432030.0	1974	P.N.F.I.	ON	CAN	45.58	77.24	160	S	10.57	1990	70.8	
7432060.0	1974	P.N.F.I.	ON	CAN	45.58	77.24	160	S	8.28	1990	20.8	
7432080.0	1974	P.N.F.I.	ON	CAN	45.58	77.24	160	S	7.73	1991	67.5	
7832260.0	1978	P.N.F.I.	ON	CAN	45.58	77.24	160	S	10.79	1990	77.8	
7832280.0	1978	P.N.F.I.	ON	CAN	45.58	77.24	160	S	9.23	1990	84.5	
7832290.0	1978	P.N.F.I.	ON	CAN	45.58	77.24	160	S	10.67	1990	60.5	
7832300.0	1978	P.N.F.I.	ON	CAN	45.58	77.24	160	S	8.60	1986	40.0	
7931180.0	1979	P.N.F.I.	ON	CAN	45.59	77.28	180	S	10.40	1986	80.0	
7931200.0	1979	P.N.F.I.	ON	CAN	45.59	77.28	180	S	9.95	1990	71.5	
8205950.0	1982	NOEL PAUL BROOK	NF	CAN	48.32	56.37	330	B	8.01	1989	51.2	
8500108.0	1985	BAY D'ESPOIR	NF	CAN	47.57	55.36	150	B	9.88	1991	43.5	
8510221.0	1985	ST. ANDREW'S	NS	CAN	45.36	61.52		B	8.32	1990	48.0	
8800429.0	1988	BAY D'ESPOIR	NF	CAN	47.66	55.52	200	B	9.14	1989	83.0	
8800430.0	1988	RODDICKTON	NF	CAN	50.59	56.14	100	B	8.32	1989	56.2	
8800431.0	1988	PORT SAUNDERS	NF	CAN	50.25	57.15	110	B	7.31	1989	25.7	
8800432.0	1988	MICHAEL'S BROOK	NF	CAN	48.46	56.19	230	B	7.83	1989	80.5	
9130076.0	1991	DEEP RIVER	ON	CAN	46.05	77.28		S	4.56			
9130077.0	1991	P.N.F.I.	ON	CAN	45.58	77.24		S	8.72			
9130078.0	1991	P.N.F.I.	ON	CAN	45.58	77.25		S	7.21			
9130079.0	1991	P.N.F.I.	ON	CAN	45.58	77.26		S	7.70			
9130080.0	1991	P.N.F.I.	ON	CAN	45.58	77.24		S	7.16			
9130081.0	1991	P.N.F.I.	ON	CAN	45.58	77.25		S	8.18			
9130082.0	1991	P.N.F.I.	ON	CAN	45.58	77.24		S	6.90			
SPECIES 1.470 ABIES FRASERI (Fraser fir)												
8285440.0	1982	JACKSON COUNTY	NC	USA	35.15	83.15		N/A	7.28	1986	48.0	
SPECIES 1.500 ABIES GRANDIS (grand fir)												

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7473860.0	1974	VICTORIA	BC	CAN	48.29	123.26	90	B(3)	23.95	1986	13.0	
8470994.0	1984	IRON RIVER	BC	CAN	49.45	125.00	25	B(50)	20.20	1985	61.7	
8570210.0	1985	CEDAR	BC	CAN	49.07	123.52		N/A	18.03	1986	21.0	
8570211.0	1985	BAINBRIDGE LAKE	BC	CAN				N/A	18.70	1986	56.5	
8570212.0	1985	BUCKLEY BAY	BC	CAN	49.31	124.51		N/A	30.31	1986	55.0	
8871099.0	1988	MENZIES BAY	BC	CAN	50.05	125.21		B	18.06	1990	85.5	
8871100.0	1988	YELLOW POINT	BC	CAN	49.03	123.50		B	20.87	1990	75.0	
8871101.0	1988	BUCKLEY BAY	BC	CAN	49.32	124.50		B	17.86	1990	67.5	
SPECIES	1.560	ABIES HOMOLEPIS (Nikko fir)										
8181585.0	1981	NAGANO PREFECTURE		JPN	36.10	137.40E	1350	N/A	14.68	1990	19.0	
SPECIES	1.600	ABIES LASIOCARPA (alpine fir)										
7473110.0	1974	MONASHEE MOUNTAINS	BC	CAN	51.05	118.35	1830	B	9.93	1986	50.0	
7473120.0	1974	SHUSWAP LAKE	BC	CAN	50.58	119.30	1370	B	10.72	1986	61.0	
7477310.0	1974	MCGILLVRAY LAKE	BC	CAN	50.51	119.51	1448	B	10.60	1986	33.5	
7971830.0	1979	HUDSONS BAY MOUNTAIN	BC	CAN	54.45	127.15	1130	B(6)	10.89	1990	68.5	
8270557.0	1982	DUCK LAKE	BC	CAN	49.07	124.39	1130	B(10)	13.24	1990	33.3	
8570213.0	1985	GRAFFUNDER LAKES	BC	CAN				N/A	8.63	1986	44.5	
8570214.0	1985	GRAFFUNDER LAKES	BC	CAN				N/A	14.49	1986	34.5	
8570215.0	1985	GRAFFUNDER LAKES	BC	CAN				N/A	8.30	1986	31.0	
SPECIES	1.650	ABIES NEPHROLEPIS										
8380662.0	1983	YICHUN,HEILONGJIANG PROV		CHN	47.00	129.00E	250	N/A	8.26	1985	46.5	
SPECIES	1.780	ABIES SACHALINENSIS (Sachalin fir)										
7985035.0	1979	HOKKAIDO PREFECTURE		JPN	42.49	142.23E	380	N/A	1.00	1986	64.0	
7985036.0	1979	HOKKAIDO PREFECTURE		JPN	42.49	142.23E	380	N/A	8.63	1986	34.0	
SPECIES	1.900	ABIES VEITCHII (veitch fir)										
7985037.0	1979	YAMANASHI PREFECTURE		JPN	35.24	138.44E	1420	N/A	11.22	1986	69.0	
7985038.0	1979	NAGANO PREFECTURE		JPN	35.52	137.30E	2200	N/A	8.92	1986	76.1	
SPECIES	2.050	ACER BARBINERVE										
8980158.0	1989	NOVOSIBIRSK		SUN	55.04	83.05E		B	41.88			PL
SPECIES	2.150	ACER GINNALA (amur maple)										
8980151.0	1989	NOVOSIBIRSK		SUN	55.04	83.05E		B	21.43			PL
SPECIES	2.210	ACER GLABRUM var. DOUGLASII (Douglas maple)										
8471440.0	1984	MANNING PROV. PARK	BC	CAN	49.13	120.58	760	S	48.44	1985	0.1	
8471441.0	1984	MANNING PROV. PARK	BC	CAN	49.13	120.58	760	S	55.53	1985	0.1	
8471442.0	1984	MANNING PROV. PARK	BC	CAN	49.13	120.58	760	S	50.43	1985	0.1	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
SPECIES	2.300	ACER MACROPHYLLUM [bigleaf (Oregon) maple]										
8470086.0	1984	CEDAR	BC	CAN	49.04	123.50	30	S	130.58			
8471437.0	1984	CEDAR	BC	CAN	49.04	123.50	30	S	114.33	1985	12.0	
8471438.0	1984	CEDAR	BC	CAN	49.04	123.50	30	S	133.84	1985	0.1	
8471439.0	1984	CEDAR	BC	CAN	49.04	123.50	30	S	181.29	1985	0.1	
SPECIES	2.340	ACER MONO										
8980152.0	1989	GURSKOYE		SUN	50.21	138.06E		B	48.70			
SPECIES	2.350	ACER NEGUNDO (Manitoba maple; box-elder)										
8330024.0	1983	TORONTO	ON	CAN	43.43	79.23	152	S	49.25	1986	39.5	
8330032.0	1983	TORONTO	ON	CAN	43.43	79.23	150	S	70.57	1986	58.5	
SPECIES	2.450	ACER PENSYLVANICUM (striped maple; moosewood)										
8430049.0	1984	DENRIGH	ON	CAN	45.09	77.10	300	B(2)	37.75	1986	83.0	
8830132.0	1988	P.N.F.I.	ON	CAN	45.59	77.33		B(2)	34.79			
8930024.0	1989	P.N.F.I.	ON	CAN	45.59	77.33		S	26.48			
SPECIES	2.500	ACER PLATANOIDES (Norway maple)										
8180990.0	1981	KARACHAYEVO-CHERKESSKAYA		SUN	44.00	42.00E		B	143.63	1985	41.0	
8330026.0	1983	TORONTO	ON	CAN	43.43	79.23	158	S	169.27	1984	8.0	PL
8330139.0	1983	TORONTO	ON	CAN	43.43	79.23	158	S	161.93	1984	49.3	PL
8330441.0	1983	TORONTO	ON	CAN	43.43	79.23	158	S	197.20	1984	17.3	PL
8580092.0	1985	HELSINKI		FIN	60.08	25.00E		B(45)	101.80	1986	71.0	
SPECIES	2.550	ACER PSEUDOPLATANUS (sycamore maple)										
8330073.0	1983	TORONTO	ON	CAN	43.40	79.23	107	S	112.94	1984	28.0	PL
8580188.0	1985	MONTIERS-SUR-SAULX-FOR.		FRA	48.34	5.21E	300	N/A	89.00			
SPECIES	2.570	ACER PSEUDOSIBOLDIANUM										
8881097.0	1988	SHKOTOVA		SUN	43.22	132.14E		S	41.06			
SPECIES	2.600	ACER RUBRUM [red (soft) maple]										
7530070.0	1975	CHALK RIVER	ON	CAN	46.05	77.23	150	S	14.19	1991	0.1	
7530080.0	1975	CHALK RIVER	ON	CAN	46.05	77.23	150	S	11.52	1991	0.5	
7530090.0	1975	CHALK RIVER	ON	CAN	46.05	77.23	150	S	9.71	1991	0.1	
7530120.0	1975	P.N.F.I.	ON	CAN	46.00	77.25	120	B	10.43	1991	0.1	
7530180.0	1975	KENORA	ON	CAN	49.38	93.50	380	B(10)	11.92	1990	19.2	
7620400.0	1976	LAUREAT	PQ	CAN	46.02	76.18	240	S	19.34	1991	1.0	
7630010.0	1976	P.N.F.I.	ON	CAN	45.59	77.23	150	S	13.37	1991	0.1	
7630030.0	1976	P.N.F.I.	ON	CAN	45.59	77.24	150	S	14.17	1991	0.1	
7630060.0	1976	P.N.F.I.	ON	CAN	45.59	77.25	170	S	17.96	1990	1.0	
7630170.0	1976	P.N.F.I.	ON	CAN	45.57	77.24	160	S	12.24	1991	0.1	
7630190.0	1976	CHALK RIVER	ON	CAN	46.03	77.23	150	S	14.77	1991	1.0	
7720400.0	1977	LAUREAT	PQ	CAN	45.56	76.22	240	S	17.11	1991	0.1	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7720410.0	1977	LAUREAT	PQ	CAN	45.56	76.22	240	B	11.66	1991	0.1	
7730110.0	1977	ELMVALE	ON	CAN	44.35	79.47	180	S	13.05	1991	0.1	
7930020.0	1979	WAINFLEET	ON	CAN	42.48	79.23	175	B(5)	12.65	1991	6.5	
7930030.0	1979	TERRA COTTA	ON	CAN	43.44	79.55	275	B(5)	12.16	1991	8.5	
7930040.0	1979	SEVERN BRIDGE	ON	CAN	44.45	79.18	230	B(5)	12.55	1991	6.2	
7930050.0	1979	P.N.F.I.	ON	CAN	45.59	77.26	170	B(5)	9.88	1991	3.0	
7930070.0	1979	P.N.F.I.	ON	CAN	45.58	77.26	180	S	13.90	1991	0.1	
7930080.0	1979	P.N.F.I.	ON	CAN	45.59	77.26	180	S	12.48	1991	0.1	
7930100.0	1979	P.N.F.I.	ON	CAN	45.59	77.25	170	S	14.66	1991	15.3	
7930110.0	1979	P.N.F.I.	ON	CAN	45.59	77.25	170	S	13.12	1991	43.5	
8230070.0	1982	P.N.F.I.	ON	CAN	45.59	77.24	150	S	10.92	1990	64.8	
8230100.0	1982	P.N.F.I.	ON	CAN	46.00	77.25	150	S	8.13	1990	18.5	
8430013.0	1984	P.N.F.I.	ON	CAN	46.00	77.25	150	S	11.82	1991	70.5	
8430014.0	1984	P.N.F.I.	ON	CAN	46.00	77.24	150	S	7.86	1991	47.5	
8430015.0	1984	P.N.F.I.	ON	CAN	46.00	77.26	150	S	14.58	1991	45.2	
8430016.0	1984	P.N.F.I.	ON	CAN	45.59	77.25	180	S	14.44	1991	62.8	
8430017.0	1984	P.N.F.I.	ON	CAN	45.59	77.27	190	S	13.05	1990	88.0	
8430018.0	1984	P.N.F.I.	ON	CAN	45.59	77.27	190	S	7.89	1991	15.8	
8430019.0	1984	P.N.F.I.	ON	CAN	45.59	77.24	150	S	14.47	1991	55.8	
8430020.0	1984	CHALK RIVER	ON	CAN	46.04	77.24		S	13.08	1990	42.0	
8430021.0	1984	CHALK RIVER	ON	CAN	46.04	77.25		S	16.08	1990	54.2	
8430022.0	1984	CHALK RIVER	ON	CAN	46.04	77.26		S	11.00	1990	86.0	
8430024.0	1984	LOON LAKE	ON	CAN	44.55	79.25	215	S	14.75	1991	61.2	
8430025.0	1984	SITE REGION 62	ON	CAN				N/A	14.71	1990	56.5	
8730159.0	1987	P.N.F.I.	ON	CAN	45.59	77.25		S	13.23	1991	91.2	
8730160.0	1987	P.N.F.I.	ON	CAN	45.59	77.25		S	11.95	1990	60.5	
8730161.0	1987	CHALK RIVER	ON	CAN	46.04	77.25		S	10.56	1991	72.5	
8930008.0	1989	DEEP RIVER	ON	CAN	46.06	77.30		S	10.01	1991	24.2	
8930009.0	1989	P.N.F.I.	ON	CAN	46.00	77.24		S	12.14	1991	51.5	
8930010.0	1989	DEEP RIVER	ON	CAN	46.06	77.30		S	6.75	1991	39.0	
SPECIES	2.800	ACER SACCHARUM [sugar (hard) maple]										
8630182.0	1986	CALEDONIA	ON	CAN				B	74.56	1987	36.0	
8830273.0	1988	PELHAM	ON	CAN	43.04	79.21	190	S	80.57	1989	87.5	PL
SPECIES	2.900	ACER SPICATUM (mountain maple)										
8430042.0	1984	P.N.F.I.	ON	CAN	45.59	77.25	150	S	17.45	1985	18.5	
8430043.0	1984	CHARLESTON LAKE	ON	CAN	44.31	76.01	120	B(2)	14.93	1986	76.0	
8930025.0	1989	P.N.F.I.	ON	CAN	45.59	77.25	150	S	17.85			
8930026.0	1989	P.N.F.I.	ON	CAN	45.59	77.25	150	S	16.89			
SPECIES	2.910	ACER TATARICUM (Tatarian maple)										
8980156.0	1989	NOVOSIBIRSK		SUN	55.04	83.05E		B	28.71			PL
SPECIES	2.920	ACER TEGMENTOSUM (Korean maple)										
8980153.0	1989	NOVOSIBIRSK		SUN	55.04	83.05E		B	29.76			PL
SPECIES	2.940	ACER UKURUNDUENSE										

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8980157.0	1989	NOVOSIBIRSK		SUN	55.04	83.05E		B	11.57			PL
SPECIES	4.050	ALNUS CORDATA (Italian alder)										
7983300.0	1979			USA				B	2.63	1989	0.1	
8082030.0	1980	NAPOLI, CAMPANIA		ITA	40.39	14.30E	700	N/A	2.51	1988	15.8	
8181340.0	1981	GERAARDSBERGEN		BEL	50.47	3.53E		S	3.55	1988	51.0	PL
SPECIES	4.090	ALNUS CREMASTOGYNE										
8380676.0	1983	I-PIN, SICHUAN PROVINCE		CHN	29.00	104.00E	355	N/A	0.57	1989	7.8	
SPECIES	4.100	ALNUS CRISPA (Green alder)										
7931400.0	1979	NIMITZ TOWNSHIP	ON	CAN	47.38	83.15	460	B	0.29	1989	32.2	
8310205.0	1983	RIVERDALE	PE	CAN	46.14	63.22	135	B(12)	0.24	1989	7.0	
8310206.0	1983	IONA	PE	CAN	46.05	62.48	45	B100	0.22	1985	2.0	
8310207.0	1983	MOUNT ROYAL	PE	CAN	46.40	64.15	20	B(30)	0.24	1985	13.0	
8310894.0	1983	TANTALLON	NS	CAN	44.42	63.52	99	B(35)	0.18	1989	9.0	
8310895.0	1983	YARMOUTH	NS	CAN	43.55	66.05	31	B(30)	0.26	1989	28.3	
8320554.0	1983	MISSISSIPPI RIVER	PQ	CAN	48.50	64.52	76	B(35)	0.29	1989	46.8	
8320555.0	1983	MISSISSIPPI RIVER	PQ	CAN	48.50	64.53	129	B(25)	0.24	1989	30.8	
8360544.0	1983	EDSON	AB	CAN	53.35	116.30		B(50)	0.25	1988	34.2	
8360545.0	1983	FORT MCMURRAY	AB	CAN	56.30	112.10		B100	0.27	1989	21.5	
8360546.0	1983	OBED SUMMIT	AB	CAN	[illegible].30	117.10		B(75)	0.35	1989	50.2	
8360547.0	1983	FORT ASSINIBOINE	AB	CAN	54.30	114.50		B(50)	0.35	1988	44.8	
8400857.0	1984	GRAND FALLS	NF	CAN	49.00	55.35	122	B(6)	0.37	1990	71.5	
8400858.0	1984	CARMANVILLE	NF	CAN	49.25	54.20	15	B(7)	0.40	1990	74.8	
8400859.0	1984	FLAT BAY	NF	CAN	48.18	58.36	61	S	0.51	1990	60.8	
8400860.0	1984	FLAT BAY	NF	CAN	48.18	58.36	61	B(8)	0.46	1989	71.8	
8411712.0	1984	AMHERST	NB	CAN	45.53	64.16	30	B(5)	0.37	1989	75.0	
8421686.0	1984	LAURENTIDE PROV. PARK	PQ	CAN	47.44	70.44	762	B(5)	0.36	1989	52.8	
8421687.0	1984	CHARNY	PQ	CAN	46.43	71.17	61	B(5)	0.38	1989	62.2	
8421713.0	1984	BERSIMIS	PQ	CAN	49.15	69.32	274	B(7)	0.37	1989	72.2	
8421714.0	1984	REMIGNY	PQ	CAN	47.47	79.15	274	B(7)	0.36	1989	67.2	
8421715.0	1984	CHAPAIS	PQ	CAN	49.22	74.02	411	B(7)	0.42	1989	83.0	
8421716.0	1984	GROSSE ROCHE	PQ	CAN	48.59	67.01	183	B(6)	0.57	1989	89.0	
8421717.0	1984	QUEVILLON	PQ	CAN	49.06	77.00	76	B(7)	0.32	1989	64.2	
8421718.0	1984	ST. MAURICE	PQ	CAN	47.14	72.51	152	B(7)	0.37	1989	69.8	
8421719.0	1984	VERENDRYE	PQ	CAN	47.30	76.43	366	B(7)	0.30	1989	45.5	
8421720.0	1983	NEW RICHMOND	PQ	CAN	48.25	65.39	229	B(7)	0.60	1989	79.5	
8421721.0	1984	MANIC	PQ	CAN	49.52	68.44	335	B(6)	0.37	1989	76.5	
8421722.0	1984	CHIBOUGAMEAU	PQ	CAN	48.40	72.35	183	B(7)	0.37	1989	86.5	
8421723.0	1984	SAGARD	PQ	CAN	48.00	70.04	213	B(5)	0.32	1989	72.2	
8421724.0	1984	TADOUSSAC	PQ	CAN	48.08	69.41	46	B(5)	0.46	1989	66.2	
8421725.0	1984	ST. HONORE	PQ	CAN	48.31	71.04	152	B(5)	0.39	1989	74.8	
8431688.0	1984	FRAZER LAKE	ON	CAN	49.12	88.12	290	B	0.26	1989	36.5	
8431689.0	1984	PAKASHKAN LAKE	ON	CAN	49.14	90.37	503	B(7)	0.35	1989	54.5	
8431690.0	1984	NAMEWAMININKAN RIVER	ON	CAN	49.46	87.45	350	B(7)	0.31	1989	28.8	
8431691.0	1984	PIC RIVER	ON	CAN	49.22	85.59	350	B(7)	0.31	1989	71.8	
8431692.0	1984	RAITH	ON	CAN	48.55	90.00	488	B(7)	0.25	1989	14.0	
8441693.0	1984	BOGGY CREEK	MB	CAN	51.32	100.56	686	B(13)	0.33	1989	51.0	
8451474.0	1984	HUDSON BAY	SK	CAN	52.47	101.47	361	B(5)	0.25	1989	8.5	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8451694.0	1984	MEADOW LAKE	SK	CAN	54.16	108.16	465	B(6)	0.25	1989	16.5	
8451695.0	1984	CANDLE LAKE	SK	CAN	53.53	105.24	495	B(5)	0.21	1989	27.0	
8451696.0	1984	LARONGE	SK	CAN	54.48	105.18	404	B(7)	0.18	1989	5.0	
8451697.0	1984	FORT A LA CORNE	SK	CAN	53.24	104.43	450	B(6)	0.25	1989	7.8	
8451698.0	1984	MCPHEE LAKE	SK	CAN	53.52	105.58	549	B(2)	0.20	1989	12.8	
SPECIES	4.170	ALNUS FIRMA SIEB. ET ZUCC.										
8082228.0	1980	KOCHI PREFECTURE		JPN	32.49	132.49E	100	N/A	1.22	1986	88.0	
8481652.0	1984	SHIGA PREFECTURE		JPN	34.58	136.00E	260	N/A	1.01	1986	80.5	
SPECIES	4.300	ALNUS GLUTINOSA (black alder)										
1180017.0		KN,KAJAANI,PUROLA		FIN				N/A	1.11	1988	24.0	
7983180.0	1979	HALLIKU FOR DIS ESTONIYA		SUN	58.45	27.00E		B	1.21	1986	3.5	
7984670.0	1979	ST. JULIEN-EN-BORN		FRA	44.04	1.13E	22	N/A	0.93	1988	58.0	
7984680.0	1979	FRAMBOIS 4		FRA	48.32	6.32E	250	N/A	1.70	1988	69.5	
8180890.0	1981	TURKEY		TUR				N/A	0.98	1990	27.5	
8181210.0	1981	CHERNIGOVSKAYA OBLAST		SUN	51.30	31.30E		S	1.53	1988	0.5	
8181370.0	1981	ZOERSEL 3		BEL	51.15	4.40E		B(10)	1.82	1988	43.5	
8181380.0	1981	JORSTAD, SNASA DISTRICT		NOR	64.12	12.13E	30	S	1.11	1988	31.2	
8181390.0	1981	VONESOTA VODA - 3		BRD	25.40	42.50E	400	N/A	1.40	1988	49.2	
8480964.0	1984	BENDERKA FOR., LITVA SSR		SUN	54.21	23.24E	110	B(3)	1.56	1985	87.0	
8580199.0	1985	SEED ORCHARD-S21A8550001		SWE				B	1.38	1990	81.5	PL - SOUTHERN SWEDEN
SPECIES	4.380	ALNUS HIRSUTA										
8380472.0	1983	CH'ANG-WEI,SHANDONG PROV		CHN	36.00	120.00E	500	N/A	1.20	1989	20.0	
8680511.0	1986	CH'ANG-WEI,SHANDONG PROV						N/A	1.23	1990	78.0	
SPECIES	4.390	ALNUS HIRSUTA TURCZ var. MICROPHYLLA NAKAI										
8181586.0	1981	IWATE PREFECTURE		JPN	39.46	141.08E	190	N/A	0.63	1990	10.0	PL
SPECIES	4.400	ALNUS INCANA [grey (European) alder]										
1180020.0		KIL KOLARI		SWE	59.30	13.20E		N/A	0.27	1989	0.1	
7683860.0	1976	TARTU RES.FOR,ESTONIYA		SUN	58.22	26.46E	70	B	0.60	1989	1.3	
7983140.0	1979	TARTU, ESTONIYA S.S.R.		SUN	58.24	26.43E	50	S	0.92	1984	90.0	I. MILLER:RSB
7983150.0	1979	SURJU FOR DIST ESTONIYA		SUN	58.19	24.40E	20	S	0.70	1989	0.2	
SPECIES	4.500	ALNUS JAPONICA										
8481653.0	1984	TOKYO PREFECTURE		JPN	35.49	139.17E	210	N/A	3.09	1986	43.0	
SPECIES	4.520	ALNUS JORULLENSIS										
8680290.0	1986	CUENCA RIOBLANCA		COL	5.08S	75.28		N/A	0.34	1990	23.8	
SPECIES	4.560	ALNUS NEPALENSIS										
8680513.0	1986			CHN	25.00	102.00E	2000	N/A	0.39	1987	91.0	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
SPECIES 4.600 ALNUS RUBRA [red (Oregon) alder]												
8071150.0	1980	BOTANICAL BAY	BC	CAN	48.28	124.25	50	B	0.52	1988	53.0	
8071180.0	1980	SHAWNIGAN	BC	CAN	48.36	123.40	190	B	0.62	1988	33.5	
8081980.0	1980	JUNEAU	AK	USA	58.23	134.30	3	B(5)	0.51	1984	15.0	
8081990.0	1980	SANDPOINT	ID	USA	48.22	116.45	945	S	0.56	1988	13.0	
8082000.0	1980	FORKS	WA	USA	48.03	124.36	50	S	0.32	1988	26.2	
8082010.0	1980	WIND RIVER EXP. FOREST	WA	USA	45.46	121.55	360	S	0.60	1988	93.2	
8082020.0	1980	FORT BRAGG	CA	USA	39.44	123.03		S	0.41	1990	31.0	
8274510.0	1982	ROBERT'S LAKE	BC	CAN	50.15	125.25	350	B#	0.67	1991	44.0	B(10-20)
8274520.0	1982	PRINCE RUPERT	BC	CAN	54.20	130.09		B	0.78	1991	33.2	
8274530.0	1982	MASSET, Q.C.I.	BC	CAN	54.03	132.04		B	0.70	1991	7.8	
8370230.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.29	1990	4.0	
8370231.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.50	1990	35.0	
8370232.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.65	1988	43.5	
8370233.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.46	1988	26.0	
8370234.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.47	1988	17.2	
8370235.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.60	1990	25.2	
8370239.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.41	1988	10.8	
8370241.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	S	0.38	1990	7.0	
8370245.0	1983	HORNE LAKE	BC	CAN	49.21	124.43	122	S	0.47	1990	17.5	
8370250.0	1983	HORNE LAKE	BC	CAN	49.21	124.43	122	S	0.52	1988	36.8	
8370251.0	1983	HORNE LAKE	BC	CAN	49.21	124.43	122	S	0.48	1988	27.2	
8370252.0	1983	HORNE LAKE	BC	CAN	49.21	124.43	122	S	0.80	1988	38.0	
8370254.0	1983	HORNE LAKE	BC	CAN	49.21	124.43	122	S	0.49	1990	42.5	
8370257.0	1983	SALMON RIVER	BC	CAN	50.12	125.45	304	S	0.59	1990	41.5	
8370258.0	1983	SALMON RIVER	BC	CAN	50.12	125.45	304	S	0.63	1990	95.2	
8370261.0	1983	SALMON RIVER	BC	CAN	50.12	125.45	304	S	0.45	1990	60.2	
8370262.0	1983	SALMON RIVER	BC	CAN	50.12	125.45	304	S	0.83	1990	77.0	
8370263.0	1983	SALMON RIVER	BC	CAN	50.12	125.45	304	S	0.80	1990	0.1	
8370264.0	1983	SALMON RIVER	BC	CAN	50.12	125.45	304	S	0.84	1990	86.0	
8370686.0	1983	CASSIDY	BC	CAN	49.03	123.56	107	B(2)	0.56	1990	12.8	
8470545.0	1984	TERRACE	BC	CAN	54.40	128.41	305	S	0.32	1991	0.1	
8470549.0	1984	TERRACE	BC	CAN	54.40	128.41	305	S	0.37	1990	0.8	
8470555.0	1984	TERRACE	BC	CAN	54.40	128.41	305	S	0.71	1990	0.2	
8470566.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.54	1990	0.1	
8470567.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.81	1990	0.5	
8470569.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.44	1990	46.5	
8470570.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.46	1990	36.5	
8470572.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.62	1990	82.0	
8470573.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.43	1990	55.5	
8470574.0	1984	KITIMAT	BC	CAN	54.15	128.30	60	S	0.60	1990	15.5	
8470577.0	1984	PORT HARDY	BC	CAN	50.37	127.15	37	S	0.37	1990	30.0	
8470578.0	1984	PORT HARDY	BC	CAN	50.37	127.15	37	S	0.55	1990	63.0	
8470579.0	1984	PORT HARDY	BC	CAN	50.37	127.15	37	S	0.54	1990	66.2	
8470580.0	1984	PORT HARDY	BC	CAN	50.37	127.15	37	S	0.30	1990	0.2	
8470581.0	1984	PORT HARDY	BC	CAN	50.37	127.15	37	S	0.38	1985	72.5	
8470582.0	1984	PORT HARDY	BC	CAN	50.37	127.15	37	S	0.60	1990	69.2	
8470583.0	1984	PORT HARDY	BC	CAN	50.37	127.15	37	S	0.47	1990	52.8	
8470584.0	1984	PORT HARDY	BC	CAN	50.37	127.15	37	S	0.53	1990	63.8	
8470585.0	1984	PORT HARDY	BC	CAN	50.37	127.15	37	S	0.70	1990	74.0	
8470586.0	1984	PORT HARDY	BC	CAN	50.37	127.15	37	S	0.70	1990	80.2	
8470599.0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	0.59	1990	62.0	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8470600.0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	0.38	1990	52.5	
8470601.0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	0.54	1990	54.2	
8470602.0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	0.43	1990	28.5	
8470603.0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	0.28	1990	33.2	
8470604.0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	0.28	1990	17.8	
8470607.0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	0.57	1990	0.8	
8470608.0	1984	PRINCE RUPERT	BC	CAN	54.16	130.16	46	S	0.42	1990	50.5	
8471466.0	1984	NINETEEN CREEK	BC	CAN	48.48	124.07	160	B(15)	0.42	1990	0.5	
8471467.0	1984	SKEENA RIVER	BC	CAN	54.19	129.20	20	B(8)	0.32	1990	2.0	
SPECIES	4.700	ALNUS RUGOSA (speckled alder)										
7981860.0	1979	PENOBSCOT RIVER	ME	USA	45.00	69.00	40	B(20)	0.62	1989	42.2	
8130150.0	1981	P.N.F.I.	ON	CAN	45.59	77.26	180	B(5)	0.74	1990	4.8	
8310202.0	1983	ENMORE	PE	CAN	46.35	64.03	10	B(45)	0.71	1989	18.5	
8310203.0	1983	MILLVALE	PE	CAN	46.24	63.24	70	B(30)	0.79	1989	18.5	
8310204.0	1983	VALLEYFIELD	PE	CAN	46.08	62.43	45	B(25)	0.85	1989	30.8	
8310876.0	1983	SHEDIAC	NB	CAN	46.14	64 36	15	B(24)	0.67	1989	16.0	
8330892.0	1983	OTTAWA	ON	CAN	45.20	76.30	75	B(29)	0.62	1989	20.8	
8330893.0	1983	PEMBROKE	ON	CAN	45.50	77.15	150	B(19)	0.72	1989	24.3	
8400850.0	1984	ST. GEORGE'S	NF	CAN	48.18	58.27	61	B(7)	0.91	1989	65.8	
8400852.0	1984	GRAND FALLS	NF	CAN	49.00	55.35	122	B	0.83	1989	27.2	
8400853.0	1984	LAKE DOUGLAS	NF	CAN	48.30	56.40	305	B(7)	1.02	1989	41.8	
8401702.0	1984	BERRY HILL POND	NF	CAN	48.20	55.30	213	B(7)	0.99	1989	53.8	
8411699.0	1984	VIEW LAKE	NS	CAN	44.32	65.21	168	B(5)	0.69	1989	57.5	
8411700.0	1984	CORBERRIE	NS	CAN	44.13	65.56	76	B(4)	0.76	1989	29.8	
8411705.0	1984	QUEEN'S COUNTY	NB	CAN	45.57	65.45	15	B(5)	0.86	1989	43.0	
8411706.0	1984	SHINIMICAS BRIDGE	NS	CAN	45.52	63.54	15	B(5)	0.70	1989	34.8	
8420726.0	1984	VERONIQUE	PQ	CAN	46.30	74.60	259	B(7)	0.72	1989	88.2	
8421672.0	1984	LA BRIEVILLE	PQ	CAN	49.09	69.21	305	B	0.94	1989	57.0	
8421677.0	1984	ST.FEREOL	PQ	CAN	47.41	71.13	747	B(7)	0.73	1989	66.0	
8421678.0	1984	MANICOUAGAN	PQ	CAN	49.49	68.44	259	B(7)	0.76	1989	56.5	
8421682.0	1984	GRANDE-ANSE	PQ	CAN	47.07	72.55	122	B(7)	0.92	1989	85.8	
8421683.0	1984	LAC SYLANS	PQ	CAN	47.19	76.53	366	B(7)	0.96	1989	83.2	
8421703.0	1984	DRUMMONDVILLE	PQ	CAN	45.54	72.30	76	B(6)	0.94	1989	44.0	
8421704.0	1984	ST. THARCISIUS	PQ	CAN	48.33	67.16	290	B(7)	0.81	1989	57.8	
8421707.0	1984	PARISVILLE	PQ	CAN	46.32	72.06	30	B(6)	0.75	1989	50.2	
8421708.0	1984	CLOUTIER	PQ	CAN	48.00	79.05	274	B(6)	0.67	1989	36.8	
8421709.0	1984	AMOS	PQ	CAN	49.07	77.00	76	B(7)	0.77	1989	51.0	
8421710.0	1984	LAC DU MOULIN	PQ	CAN	49.42	74.22	381	B(5)	0.78	1989	39.5	
8430827.0	1984	CARNARVON	ON	CAN	45.02	78.50	305	B(7)	1.00	1989	36.8	
8430829.0	1984	BANCROFT	ON	CAN	44.58	77.46	333	B(7)	0.96	1989	69.5	
8430831.0	1984	JUNCTION HWY 60 AND 127	ON	CAN	45.28	78.14	335	B(7)	1.00	1989	76.8	
8430837.0	1984	COLBORNE	ON	CAN	44.02	77.54	122	B(7)	0.86	1989	55.2	
8430838.0	1984	OMENEE	ON	CAN	44.18	78.28	244	B(7)	0.98	1989	48.8	
8430843.0	1984	DACRE	ON	CAN	45.20	77.02	305	S	0.83	1985	82.0	
8431673.0	1984	CARAMAT	ON	CAN	49.33	86.09	350	B(6)	0.82	1989	61.2	
8431674.0	1984	DOG RIVER	ON	CAN	48.55	90.00	488	B(7)	0.74	1989	59.8	
8431675.0	1984	WHITE RIVER	ON	CAN	45.22	76.32	183	B(7)	0.98	1989	51.5	
8431676.0	1984	DACRE	ON	CAN	45.20	77.02	305	B(6)	0.88	1989	52.2	
8431680.0	1984	HAZELWOOD	ON	CAN	49.08	90.37	488	B(6)	0.72	1989	36.8	
8431681.0	1984	SPRUCE RIVER	ON	CAN	49.08	89.19	457	B(7)	0.72	1989	56.8	
8431685.0	1984	BEARDMORE	ON	CAN	49.41	87.41	335	B(7)	0.78	1989	50.8	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8450494.0	1984	FORT A LA CORNE	SK	CAN	53.24	104.43	450	S	0.50	1985	27.0	
8451469.0	1984	HUDSON BAY	SK	CAN	52.48	101.47	351	B(7)	0.61	1989	30.8	
8451470.0	1984	FORT A LA CORNE	SK	CAN	53.24	104.42	450	B(6)	0.54	1989	9.8	
8451471.0	1984	MCPHEE LAKE	SK	CAN	53.52	105.58	549	B(7)	0.59	1989	14.8	
8451472.0	1984	CANDLE LAKE	SK	CAN	53.53	105.24	495	B(7)	0.43	1989	8.5	
8451473.0	1984	MEADOW LAKE	SK	CAN	54.16	108.17	465	B(6)	0.46	1989	6.0	
8451684.0	1984	LA RONGE	SK	CAN	54.48	105.17	381	B(7)	0.58	1989	13.2	
SPECIES	4.800	ALNUS SINUATA (sitka alder)										
7971840.0	1979	MCKENDRICK PASS	BC	CAN	54.50	126.45	1190	B(20)	0.53	1990	87.0	
8071210.0	1980	CRANBROOK	BC	CAN	49.35	117.05	640	B	0.29	1990	31.0	
8081960.0	1980	MENDENHALL VALLEY	AK	USA	58.24	134.34	15	B	0.25	1988	4.2	
8081970.0	1980	SANDPOINT	ID	USA	48.22	116.45	1350	S	0.34	1988	2.8	
8181320.0	1981	ARCATA	CA	USA	40.54	124.05	1500	B	0.29	1990	20.8	
8370224.0	1983	WHITEWATER	BC	CAN	49.27	117.11	1128	B	0.27	1984	5.5	B(40+)
8370535.0	1983	GOLDEN	BC	CAN	51.30	117.20		B	0.41	1990	50.8	B(100)
8370536.0	1983	VALEMOUNT	BC	CAN	52.50	119.15	850	B	0.29	1990	22.7	B(100)
8370886.0	1983	MT. ARROWSMITH	BC	CAN	49.14	124.36	1150	B	0.52	1989	1.0	
8370887.0	1983	SPROAT LAKE	BC	CAN	49.18	125.04	640	B	0.52	1989	20.2	
8370888.0	1983	MCKAY LAKE	BC	CAN	49.45	125.17	914	B(26)	0.54	1989	54.5	
8370889.0	1983	ROBERTS LAKE	BC	CAN	50.13	125.30	366	B(45)	0.37	1989	26.5	
8370890.0	1983	PHOENIX	BC	CAN	49.05	118.35	1219	B(50)	0.36	1990	15.5	
8370891.0	198?	DEASE LAKE	BC	CAN	58.45	130.03	869	B	0.49	1989	88.2	
8370896.0	1983	GREEN MOUNTAIN	BC	CAN	49.03	124.21	1100	B	0.68	1989	81.0	
8370897.0	1983	GALENA BAY	BC	CAN	50.35	117.52	607	B*	0.38	1989	44.8	B(20+)
8370898.0	1983	HOPE SLIDE	BC	CAN	49.16	121.15	762	B*	0.51	1989	33.5	B(30+)
8370899.0	1983	COLD CREEK	BC	CAN	50.49	120.07	1310	B*	0.45	1989	50.2	B(40+)
8370900.0	1983	VANDERHOOF	BC	CAN	53.56	123.49	1287	B*	0.38	1989	51.2	B(50+)
8370901.0	1983	ROGERS PASS	BC	CAN	51.19	117.34	1219	B*	0.37	1989	27.8	B(50+)
8370902.0	1983	ADAMS PLATEAU	BC	CAN	51.06	119.33	1280	B*	0.41	1989	20.0	B(40+)
8370903.0	1983	CHINA NOSE SUMMIT	BC	CAN	54.27	126.08	1430	B	0.42	1989	48.0	
8370904.0	1983	STIKINE RIVER	BC	CAN	58.00	130.02	915	B(46)	0.44	1989	86.0	
SPECIES	4.900	ALNUS TENUIFOLIA (mountain alder)										
8071200.0	1980	CRANBROOK	BC	CAN	49.30	117.47	712	B	0.56	198?	0.2	
8360537.0	1983	HINTON	AB	CAN	53.25	117.45		B(20)	0.55	1989	25.5	
8360542.0	1983	WANDERING RIVER	AB	CAN	55.20	112.30		B(50)	0.57	1989	39.2	
8360543.0	1983	EDSON	AB	CAN	53.35	116.30		B	0.52	1989	23.5	
8360885.0	1983	FT. ASSINIBOINE	AB	CAN	54.30	114.50		B(40)	0.60	1989	24.8	
8370539.0	1983	VALEMOUNT	BC	CAN	52.50	119.15	850	B(50)	0.61	1989	48.0	
8370875.0	1983	LOUIS CREEK	BC	CAN	50.51	120.00	726	B*	0.48	1990	6.2	B(50+)
8370878.0	1983	CACHE CREEK	BC	CAN	50.59	121.28	541	B*	0.54	1989	13.5	B(20+)
8370879.0	1983	BOBTAIL	BC	CAN	53.57	123.28	1152	B	0.70	1989	48.0	
8370880.0	1984	ISKUT	BC	CAN	57.53	130.00	1033	B	0.71	1989	66.8	
8370881.0	1983	HOUSTON	BC	CAN	54.29	126.13	533	B*	0.82	1989	55.8	B(30+)
8370882.0	1983	THREE VALLEY GAP	BC	CAN	50.59	118.33	518	B*	0.40	1989	4.5	B(40+)
8370883.0	1983	BLUEBERRY CREEK	BC	CAN	49.18	117.47	884	B*	0.54	1989	1.8	B(25+)
8370884.0	1984	DEASE LAKE	BC	CAN	58.32	130.00	817	B*	0.72	1989	25.5	B(30+)
SPECIES	4.950	ALNUS VIRIDIS										

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
9080229.0	1990	SIRIU		ROM	45.27	26.06E	1400	B	0.38	1991	38.0	
9080230.0	1990	RETEZAT		ROM	45.21	22.52E	1700	B	0.53			
9080231.0	1990	SINAIA DISTRICT		ROM	45.22	25.30E	1500	B	0.26	1991	24.2	
SPECIES	7.800	AUSTROCEDRUS CHILENSIS										
8690126.0	1986	MES DE MARZO		ARG				N/A	4.05	1986	25.0	
8690127.0	1986	MES DE MARZO		ARG				N/A	3.33	1986	21.5	
8780165.0	1987	EL BOLSON, RIO NEGRO		ARG	42.00S	71.35	300	N/A	4.80			
SPECIES	8.100	BETULA ALLEGHANIENSIS (yellow birch)										
6630530.0	1966	P.N.F.I.	ON	CAN	45.56	77.33	200	S	0.87	1990	47.0	
6730310.0	1967	ALGONQUIN PARK	ON	CAN	46.10	78.30	335	S	1.11	1990	52.8	
6730320.0	1967	ALGONQUIN PARK	ON	CAN	46.10	78.30	335	S	1.23	1990	43.2	
6730340.0	1967	PANCAKE RIVER	ON	CAN	47.02	84.38	335	S	0.83	1988	40.8	
6730360.0	1967	PANCAKE RIVER	ON	CAN	47.02	84.38	335	S	0.77	1990	71.5	
6731920.0	1967	SAULT STE. MARIE	ON	CAN	46.31	84.20		N/A	0.90	1990	16.0	
7030820.0	1970	PEMBROKE	ON	CAN	45.49	77.07		S	1.53	1990	71.8	
7030840.0	1970	P.N.F.I.	ON	CAN	46.00	77.26	150	S	1.22	1990	0.1	
7030850.0	1970	P.N.F.I.	ON	CAN	46.00	77.25	150	S	1.09	1990	5.8	
7030880.0	1970	PEMBROKE	ON	CAN	45.49	77.07		S	1.47	1990	81.2	
7030890.0	1970	PEMBROKE	ON	CAN	45.49	77.07		S	1.10	1991	0.1	
7030900.0	1970	ALGONQUIN PARK	ON	CAN	45.45	79.00		S	0.87	1991	28.0	
7030910.0	1970	ALGONQUIN PARK	ON	CAN	45.45	79.00		S	0.87	1991	38.8	
7030920.0	1970	P.N.F.I.	ON	CAN	46.00	77.26	150	S	1.15	1990	46.5	
7030930.0	1970	ALGONQUIN PARK	ON	CAN	45.33	78.12		S	1.04	1991	3.0	
7030940.0	1970	ALGONQUIN PARK	ON	CAN	45.33	78.12		S	1.54	1990	18.2	
7030960.0	1970	OTTAWA	ON	CAN	45.24	75.33	70	S	1.38	1991	76.0	
7033170.0	1970	ALGONQUIN PARK	ON	CAN				N/A	1.45	1990	64.8	
7130940.0	1971	P.N.F.I.	ON	CAN	46.00	77.26	150	N/A	1.15	1991	3.2	
7434390.0	1971	P.N.F.I.	ON	CAN	46.00	77.26	150	S	0.95	1991	88.5	
7434400.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	150	S	1.12	1989	77.2	
7434510.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	150	S	1.24	1990	4.0	
7434520.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	150	S	1.44	1990	21.0	
7434530.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	150	S	1.31	1990	57.2	
7434540.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	150	S	1.41	1990	0.1	
7434550.0	1974	WHITNEY	ON	CAN	45.25	78.16	460	S	0.94	1990	6.0	
7434560.0	1974	WHITNEY	ON	CAN	45.25	78.16	460	S	1.34	1990	13.0	
7434740.0	1974	WHITNEY	ON	CAN	45.25	78.16	460	S	1.07	1991	61.5	
7434910.0	1974	WHITNEY	ON	CAN	45.25	78.16	460	S	1.69	1984	88.0	
7434920.0	1974	WHITNEY	ON	CAN	45.25	78.16	460	S	0.63	1990	20.0	
7434930.0	1974	WHITNEY	ON	CAN	45.25	78.16	460	N/A	1.27	1990	0.5	
8500107.0	1985	BAY D'ESPOIR	NF	CAN	47.51	55.42	50	B	0.75	1990	40.5	
8800428.0	1988	BAY D'ESPOIR	NF	CAN	47.57	55.48	15	B	1.23	1989	39.5	
8930035.0	1989	P.N.F.I.	ON	CAN	46.00	77.26		S	1.40	1989	42.0	
8930036.0	1989	CORMAC	ON	CAN	45.28	77.18		S	1.44	1989	46.8	
8930037.0	1989	P.N.F.I.	ON	CAN	46.00	77.26		S	1.28	1989	80.0	
8930038.0	1989	P.N.F.I.	ON	CAN	46.00	77.24		S	1.26	1989	56.8	
8930039.0	1989	P.N.F.I.	ON	CAN	46.00	77.26		S	0.79	1989	25.2	
8930040.0	1989	P.N.F.I.	ON	CAN	46.00	77.26		S	0.99	1989	60.2	
9130055.0	1991	P.N.F.I.	ON	CAN	46.00	77.25		S	1.89			
9130056.0	1991	P.N.F.I.	ON	CAN	46.00	77.24		S	1.06			

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt.	YEAR TEST	% GERM	REMARKS
9130057.0	1991	P.N.F.I.	ON	CAN	46.00	77.26		S	1.14			
9130058.0	1991	P.N.F.I.	ON	CAN	46.00	77.26		S	1.15			
9130059.0	1991	P.N.F.I.	ON	CAN	46.00	77.25		S	0.80			
9130060.0	1991	CHALK RIVER	ON	CAN	46.03	77.22		S	0.85			
SPECIES 8.200 BETULA KIRGHISORUM CAUCASUS												
8680291.0	1986	EDINBURGH		SCO	55.57	3.13		N/A	0.24	1990	28.5	POSSIBLE HYBRID
SPECIES 8.230 BETULA LENTA (cherry birch)												
8530012.0	1985	JORDAN HARBOUR	ON	CAN	43.11	79.19	88	N/A	0.26	1985	20.0	GPC-RF
SPECIES 8.300 BETULA OCCIDENTALIS [water (black) birch]												
8570218.0	1985	SALMON ARM	BC	CAN	50.41	119.17		N/A	0.28	1990	80.2	
8570219.0	1985	ADAMS LAKE	BC	CAN	50.58	119.41		B	0.49	1990	32.8	
SPECIES 8.500 BETULA PAPYRIFERA [white (paper) birch]												
7520370.0	1975	MONT ALBERT	PQ	CAN	48.56	66.06	365	S	0.43	1986	0.1	
7520410.0	1975	PARC DE LA VERENDRYE	PQ	CAN	46.49	76.08	335	S	0.56	1990	0.1	
7520420.0	1975	PARC DE LA VERENDRYE	PQ	CAN	46.49	76.08	335	S	0.30	1990	0.1	
7520490.0	1975	PARC DE LA VERENDRYE	PQ	CAN	46.49	76.08	335	S	0.36	1985	43.5	
7530250.0	1975	P.N.F.I.	ON	CAN	46.00	77.26	150	S	0.31	1990	0.7	
7540270.0	1975	SANDY LANDS FOR. RESERVE	MB	CAN	49.20	96.18	370	S	0.25	1989	6.8	
7540320.0	1975	AGASSIZ FOREST RESERVE	MB	CAN	50.00	96.15	460	B(2)	0.30	1990	1.0	
7731990.0	1977	WIARTON	ON	CAN	44.47	81.00	180	B(5)	0.18	1990	0.1	
7732000.0	1977	RAMSEY LAKE	ON	CAN	46.30	81.00	250	B	0.35	1990	0.5	
8360629.0	1983	FORT MCMURRAY	AB	CAN	57.05	111.35	305	N/A	0.18	1989	0.1	
8411503.0	1984	A.F.E.S.	NR	CAN	46.00	68.18	100	S	0.25	1991	15.2	
8700207.0	1987	GRAND FALLS HOUSE	NF	CAN	48.50	55.20	90	B	0.26	1990	23.8	
9130035.0	1991	ALICE	ON	CAN	45.45	77.08		S	0.23			
9130036.0	1991	JACKS LAKES	ON	CAN	45.42	77.30		S	0.43			
9130037.0	1991	P.N.F.I.	ON	CAN	45.59	77.26		S	0.37			
9130038.0	1991	P.N.F.I.	ON	CAN	46.00	77.25		S	0.29	1991	30.5	
9130039.0	1991	P.N.F.I.	ON	CAN	46.00	77.27		B(3)	0.35			
9130040.0	1991	P.N.F.I.	ON	CAN	46.00	77.27		S	0.42	1991	54.5	
9130041.0	1991	P.N.F.I	ON	CAN	46.00	77.25		S	0.28			
9130042.0	1991	P.N.F.I.	ON	CAN	45.58	77.28		S	0.51			
9130043.0	1991	P.N.F.I.	ON	CAN	46.00	77.26		S	0.34			
9130044.0	1991	P.N.F.I.	ON	CAN	45.58	77.27		S	0.23	1991	22.2	
9130045.0	1991	P.N.F.I.	ON	CAN	45.58	77.26		B(3)	0.28			
9130046.0	1991	P.N.F.I.	ON	CAN	45.58	77.27		S	0.34			
SPECIES 8.600 BETULA PENDULA [silver (weeping) birch]												
80005.0				FRA				N/A	0.12	1988	8.5	
7683890.0	1976	MAHTRA FOREST, ESTONIYA		SUN	59.10	24.46E	80	B	0.22	1990	36.0	
7984730.0	1979	HANAU 5 SEED ORCHARD		DEU	50.08	8.52E	110	S	0.18	1990	0.5	PL
8181020.0	1981	MOGILEVSKAYA OBLAST		SUN	54.00	30.00E		B	0.18	1991	0.5	
8181030.0	1981	KAREL'SKAYA A.S.S.R.		SUN	65.00	35.00E		B	0.26	1990	10.0	
8181040.0	1981	KAREL'SKAYA A.S.S.R.		SUN	65.00	35.00E		B	0.20	1990	16.2	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8181050.0	1981	KAREL'SKAYA A.S.S.R.		SUN	65.00	35.00E		B	0.26	1984	75.0	
8181060.0	1981	KOSTROMSKAYA OBLAST		SUN	57.30	41.00E		B	0.18	1984	46.0	
8280573.0	1982	KRONBERG 2 SEED ORCHARD		DEU	50.10	8.31E	180	N/A	0.20	1991	95.2	PL
8280574.0	1982	USINGEN 3 SEED ORCHARD		DEU	50.17	8.36E	420	S	0.18	1991	60.0	PL
8280575.0	1982	RHINELAND PALATINATE		DEU	50.51	7.00E	200	N/A	0.27	1990	44.5	PL
8280576.0	1982	GRODZISK		POL	52.12	16.21E	90	N/A	0.20	1991	55.2	
8280577.0	1982	KRONBERG 1 SEED ORCHARD		DEU	50.10	8.31E	200	S	0.14	1991	87.2	PL
8480036.0	1984	LOCH RANNOCH		SCO	56.40	4.35	250	S	0.25	1991	0.1	
8580183.0	1985	CAIRNDOW, ARGYLL		SCO	56.16	4.55		S	0.16	1990	3.8	
8580184.0	1985	CAIRNDOW, ARGYLL		SCO	56.16	4.55		S	0.06	1991	0.5	
8580185.0	1985	CAIRNDOW, ARGYLL		SCO	56.16	4.55		S	0.32	1191	74.0	
8680140.0	1986	FASKALLY FOREST		SCO	56.43	3.47		N/A	0.17	1991	0.2	
8780180.0	1987	BLAIR ATHOLL		SCO	56.46	3.51		B(5)	0.18	1990	1.0	
8880275.0	1988	BLAIR ATHOLL		SCO	56.46	3.51		S	0.17	1989	0.8	
SPECIES	8.650	BETULA PLATYPHYLLA										
8380665.0	1983	PAO-CHI, SHAANXI PROV.		CHN	35.00	107.00E	1500	N/A	0.16	1991	13.2	
8480987.0	1984	HEILONGJIANG PROVINCE		CHN	47.00	127.00E		N/A	0.30	1989	43.5	
SPECIES	8.700	BETULA POPULIFOLIA (grey birch)										
7031040.0	1970	OTTAWA	ON	CAN	45.24	75.33	70	S	0.09	1991	7.2	
SPECIES	8.800	BETULA PUBESCENS (downy birch)										
1180021.0		KILPISJARV		SWE	69.00	20.45E		N/A	0.30	1989	29.0	
7683900.0	1976	TARTU, ESTONIYA S.S.R.		SUN	58.22	26.46E	70	B	0.20	1989	25.5	
7984740.0	1979	DANNDORF 5 SEED ORCHARD		DEU	52.31	10.56E	60	S	0.29	1990	47.8	PL
7984750.0	1979	DANNDORF 7 SEED ORCHARD		DEU	52.31	10.56E	60	S	0.31	1990	89.2	PL
7984760.0	1979	DANNDORF 12 SEED ORCHARD		DEU	52.31	10.56E	60	S	0.27	1990	14.2	PL
7984770.0	1979	DANNDORF 17 SEED ORCHARD		DEU	52.31	10.56E	60	S	0.23	1990	27.8	PL
7984780.0	1979	DANNDORF 18 SEED ORCHARD		DEU	52.31	10.56E	60	S	0.33	1990	0.2	PL
SPECIES	8.850	BETULA RADDEANA CAUCASUS										
8680292.0	1986	EDINBURGH		SCO	55.57	3.13		N/A	0.29	1990	2.2	POSSIBLE HYBRID
SPECIES	9.100	CARAGANA ARBORESCENS (Siberian pea-shrub; pea-tree)										
7634710.0	1976	P.N.F.I.	ON	CAN	46.00	77.26	150	B	27.06	1984	0.1	
7637750.0	1976	OTTAWA	ON	CAN	45.20	75.41	91	N/A	26.76	1984	0.1	
8730176.0	1987	P.N.F.I.	ON	CAN	46.00	77.26		B	23.27	1987	85.2	PL
8751126.0	1987		SK	CAN				B	24.96			
SPECIES	10.200	CARPINUS CAROLINIANA (blue-beech; hornbeam)										
8430044.0	1984	CHARLESTON LAKE	ON	CAN	44.31	76.01	120	B(5)	22.29	1984	82.7	
8431611.0	1984	TRENTON	ON	CAN	44.07	77.36	90	S	16.48	1986	3.5	
SPECIES	11.200	CARYA CORDIFORMIS (bitternut hickory)										
9030003.0	1990	FORESTER'S FALLS	ON	CAN	45.41	76.43	90	B	2416.88			

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
SPECIES 11.250 CARYA GLABRA (pignut hickory)												
8430070.0	1984	FONTHILL	ON	CAN	43.03	79.19	246	B(2)	2507.76			
8530081.0	1985	FONTHILL	ON	CAN	43.05	79.15		S	2354.52			
SPECIES 11.600 CARYA OVATA (shagbark hickory)												
7437510.0	1974	WALSINGHAM	ON	CAN				N/A				
8430066.0	1984	FONTHILL	ON	CAN	42.59	79.22	175	B(2)	2843.71			
SPECIES 12.300 CATALPA SPECIOSA (catalpa)												
8330639.0	1983	HALDIMAND	ON	CAN	43.00	79.50		B(10)	17.49	1984	76.0	PL
SPECIES 14.200 CERCIS CANADENSIS (Redbud)												
80178.0				USA				N/A	30.28			PL
SPECIES 14.600 CHACAYA TRINERVIS												
8780168.0	1987	EL BOLSON, RIO NEGRO		ARG	41.50S	71.34	450	N/A	2.37			
SPECIES 15.100 CHAMAECYPARIS LAWSONIANA (Port-Orford-cedar)												
80004.0				FRA				N/A	2.78	1988	63.0	
SPECIES 15.200 CHAMAECYPARIS NOOTKATENSIS(willow cypress/Alaska cedar)												
8570216.0	1985	NANAIMO RIVER TATORUS	BC	CAN	49.06	123.53		N/A	5.52	1986	53.5	
8570217.0	1985	SPARTON LAKE	BC	CAN				N/A	3.89	1986	55.0	
SPECIES 20.200 FAGUS GRANDIFOLIA (American beech)												
8730177.0	1987	P.N.F.I.	ON	CAN	46.00	77.27	180	S	151.65	1987	63.0	
8730178.0	1987	P.N.F.I.	ON	CAN	46.00	77.27	180	S	196.35	1987	9.0	
8830126.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	201.00			
8830127.0	1988	P.N.F.I.	ON	CAN	45.58	77.26		S	105.14			
8830129.0	1988	P.N.F.I.	ON	CAN	45.58	77.32		S	184.42			
8830130.0	1988	P.N.F.I.	ON	CAN	45.58	77.32		S	201.88			
SPECIES 20.400 FAGUS SYLVATICA (European beech)												
8980095.0	1989	EKSJO DISTRICT		SWE	57.41	15.00E	250	B	183.81			
SPECIES 20.700 FITZROYA CUPRESSOIDES (Patagonian cypress)												
8780166.0	1987	EL BOLSON, RIO NEGRO		ARG	41.58S	71.35	280	N/A	0.90			
SPECIES 21.100 FRAXINUS AMERICANA (white ash)												
5630560.0	1956	P.N.F.I.	ON	CAN	45.59	77.26	180	N/A				
7433330.0	1974	CHENAUX	ON	CAN	45.35	76.41	90	S	54.30			
7433350.0	1974	CHENAUX	ON	CAN	45.35	76.41	90	S	83.10			

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7433370.0	1974	CHENAUX	ON	CAN	45.35	76.41	90	S	54.50			
7725390.0	1977	ROUGE RIVIERE	PQ	CAN	45.51	74.36	180	S				
7732550.0	1977	ROSS TOWNSHIP	ON	CAN	45.35	76.41	110	S				
7732680.0	1977	RAMSAY TOWNSHIP	ON	CAN	45.10	76.17	150	N/A				
7732710.0	1977	CARP RIDGE	ON	CAN	45.22	76.02	120	S	59.96			
7732750.0	1977	CORNWALL TOWNSHIP	ON	CAN	45.09	74.51	90	S	54.84			
7732800.0	1977	KILLBEAR PROV. PARK	ON	CAN	45.21	80.12	180	S	59.04			
7732860.0	1977	HARVEY TOWNSHIP	ON	CAN	44.40	78.21	300	S				
7732890.0	1977	RONDEAU PROV. PARK	ON	CAN	42.18	81.51	170	S	45.58			
7733110.0	1977	WINDHAM TOWNSHIP	ON	CAN	42.56	80.26	230	S				
7733120.0	1977	WINDHAM TOWNSHIP	ON	CAN	42.53	80.22	230	S				
7733130.0	1977	WOODHOUSE TOWNSHIP	ON	CAN	42.49	80.16	200	S				
7733160.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.16	79.04	75	S	55.04			
7733170.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.16	79.04	75	S	43.58	1984	32.0	
7733180.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.16	79.04	75	S	57.23	1984	22.7	
7733200.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.16	79.04	75	S				
7733220.0	1977	FORT ERIE	ON	CAN	42.50	78.50	170	S	62.51	1984	14.7	
7733230.0	1977	BEVERLY TOWNSHIP	ON	CAN	43.20	80.05	275	S	69.30			
7733260.0	1977	BLENHEIM TOWNSHIP	ON	CAN	43.18	80.35	300	S				
7733290.0	1977	TURNBERRY TOWNSHIP	ON	CAN	43.55	81.19	300	S				
7733300.0	1977	TURNBERRY TOWNSHIP	ON	CAN	43.55	81.19	300	S	53.12	1984	52.0	
7733330.0	1977	TURNBERRY TOWNSHIP	ON	CAN	43.55	81.19	300	S	57.26	1984	61.3	
7733350.0	1977	TURNBERRY TOWNSHIP	ON	CAN	43.55	81.19	300	S				
7733360.0	1977	DUNGANNON	ON	CAN	43.52	81.35	244	S	53.14	1984	28.0	
7733380.0	1977	DUNGANNON	ON	CAN	43.52	81.35	244	S	57.99	1984	54.7	
7733390.0	1977	BENMILLER	ON	CAN	43.36	81.37	244	S				
7733400.0	1977	BENMILLER	ON	CAN	43.34	81.36	244	S	62.32	1984	17.3	
7733420.0	1977	TARA	ON	CAN	44.26	81.12	244	S	45.48	1984	62.7	
7733430.0	1977	TARA	ON	CAN	44.26	81.12	244	S	51.11	1984	46.7	
7733450.0	1977	TARA	ON	CAN	44.26	81.12	244	S	49.54	1984	37.3	
7733510.0	1977	BOGNOR	ON	CAN	44.31	80.45	244	S	44.29			
7733570.0	1977	BLUEWATER BEACH	ON	CAN	44.37	79.58	213	S	43.37			
7733580.0	1977	BLUEWATER BEACH	ON	CAN	44.37	79.58	213	S				
7733590.0	1977	BLUEWATER BEACH	ON	CAN	44.37	79.58	213	S	52.86	1984	18.7	
7733600.0	1977	TERRA NOVA	ON	CAN	44.14	80.03	274	S				
7733630.0	1977	TERRA NOVA	ON	CAN	44.14	80.03	274	S				
7733650.0	1977	TERRA NOVA	ON	CAN	44.14	80.03	274	S				
7733670.0	1977	TERRA NOVA	ON	CAN	44.14	80.03	274	S				
7733680.0	1977	STOUFFVILLE	ON	CAN	44.03	79.16	335	S				
7733690.0	1977	STOUFFVILLE	ON	CAN	43.59	79.15	305	S				
7733700.0	1977	STOUFFVILLE	ON	CAN	43.58	78.55	213	S				
7733720.0	1977	STOUFFVILLE	ON	CAN	44.01	79.09	305	S				
7733730.0	1977	STOUFFVILLE	ON	CAN	44.01	79.09	305	S				
7733760.0	1977	SIBBALT	ON	CAN	44.17	79.22	213	S				
7733770.0	1977	SIBBALT	ON	CAN	44.17	79.14	213	S				
7733780.0	1977	SIBBALT	ON	CAN	44.17	79.14	213	S	47.20	1984	32.0	
7733790.0	1977	ELIZABETHVILLE	ON	CAN	44.03	78.28	213	S				
7733800.0	1977	ELIZABETHVILLE	ON	CAN	44.03	78.28	213	S				
7733820.0	1977	ELIZABETHVILLE	ON	CAN	44.01	78.26	152	S				
7733830.0	1977	ELIZABETHVILLE	ON	CAN	44.00	78.25	213	S				
7733840.0	1977	ELIZABETHVILLE	ON	CAN	43.59	78.21	91	S				
7733850.0	1977	RICE LAKE	ON	CAN	44.14	78.08	213	S				
7733860.0	1977	RICE LAKE	ON	CAN	44.14	78.08	213	S				

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7733870.0	1977	RICE LAKE	ON	CAN	44.15	78.06	213	S				
7733880.0	1977	RICE LAKE	ON	CAN	44.15	78.06	213	S				
7733890.0	1977	RICE LAKE	ON	CAN	44.16	78.05	213	S				
7735950.0	1977	CUMBERLAND	ON	CAN	45.31	75.23	30	S				
7735960.0	1977	CUMBERLAND	ON	CAN	45.31	75.23	30	S				
7739266.0	1977	CORNWALL TOWNSHIP	ON	CAN	45.09	74.51	90	B(2)				
9130013.0	1991	P.N.F.I.	ON	CAN	46.00	77.27		S	45.13			
9130014.0	1991	LAKE DORE	ON	CAN	45.35	77.04		S	41.53			
9130015.0	1991	CORMAC	ON	CAN	45.29	77.26		S	42.22			
9130016.0	1991	CHALK RIVER	ON	CAN	46.03	77.22		S	58.25			
9130017.0	1991	CORMAC	ON	CAN	45.29	77.26		S	37.99			
9130018.0	1991	P.N.F.I.	ON	CAN	46.00	77.27		S	48.32			
9130019.0	1991	P.N.F.I.	ON	CAN	46.00	77.27		S	57.34			
9130020.0	1991	P.N.F.I.	ON	CAN	46.00	77.27		S	40.92			
9130021.0	1991	LAKE DORE	ON	CAN	45.35	77.04		S	52.36			
9130022.0	1991	CHALK RIVER	ON	CAN	46.03	77.22		S	59.74			
9130062.0	1991	WAINFLEET	ON	CAN	43.00	79.28	180	B	22.14			
SPECIES	21.150	FRAXINUS CHINENSIS										
8380668.0	1983	BEIJING MUNICIPALITY		CHN	40.00	116.00E	42	N/A	30.16	1985	71.5	
SPECIES	21.200	FRAXINUS EXCELSIOR (European ash)										
8580187.0	1985	GRAFFINY CHEMIN FOREST		FRA	48.11	5.35E	350	N/A	59.87			
8880707.0	1988	SVINHULT DISTRICT		SWE	57.45	15.25E	230	B(10)	74.40			
SPECIES	21.400	FRAXINUS NIGRA [black (swamp) ash]										
5630570.0	1956	P.N.F.I.	ON	CAN	46.00	77.27	150	S	69.64	1984	0.1	
5930660.0	1959	P.N.F.I.	ON	CAN	45.56	77.33	180	N/A	83.26	1984	0.1	
8830125.0	1988	CARIBOU CREEK	ON	CAN	45.10	77.30		B(2)	61.74			
9130028.0	1991	P.N.F.I.	ON	CAN	46.00	77.26		S	67.94			
9130029.0	1991	P.N.F.I.	ON	CAN	46.00	77.27		S	69.60			
9130030.0	1991	CHALK RIVER	ON	CAN	46.02	77.30		S	67.00			
9130031.0	1991	P.N.F.I.	ON	CAN	46.00	77.27		S	64.19			
91[illegible]32.0	1991	P.N.F.I.	ON	CAN	46.00	77.26		S	55.92			
9[illegible]0033.0	1991	P.N.F.I.	ON	CAN	46.00	77.26		B(3)	62.83			
SPECIES	21.500	FRAXINUS PENNSYLVANICA (red ash)										
7733970.0	1977	OSGOODE TOWNSHIP	ON	CAN	45.13	75.34	90	S	37.27	1986	46.0	
7733990.0	1977	OSGOODE TOWNSHIP	ON	CAN	45.13	75.34	90	S	47.26	1984	56.0	
7734000.0	1977	OSGOODE TOWNSHIP	ON	CAN	45.13	75.34	90	S	42.87	1986	23.5	
7734010.0	1977	OSGOODE TOWNSHIP	ON	CAN	45.13	75.34	90	S	47.32	1984	51.0	
7734020.0	1977	DRUMMOND TOWNSHIP	ON	CAN	44.58	76.20	150	S	38.82	1984	55.5	
7734040.0	1977	DRUMMOND TOWNSHIP	ON	CAN	44.58	76.20	150	S	49.38	1984	62.0	
7734050.0	1977	DRUMMOND TOWNSHIP	ON	CAN	44.58	76.20	150	S	35.56	1984	57.0	
7734070.0	1977	ROXBOROUGH TOWNSHIP	ON	CAN	45.12	74.55	90	S	56.67	1984	60.5	
7734080.0	1977	ROXBOROUGH TOWNSHIP	ON	CAN	45.12	74.55	90	S	31.93	1986	29.0	
7734090.0	1977	ROXBOROUGH TOWNSHIP	ON	CAN	45.12	74.55	90	S	50.02	1984	49.0	
7734150.0	1977	WILLIAMSBURG TOWNSHIP	ON	CAN	44.50	75.11	80	S	37.52	1984	32.0	
7734160.0	1977	WILLIAMSBURG TOWNSHIP	ON	CAN	44.50	75.11	80	S	40.31	1984	43.0	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7734210.0	1977	OXFORD TOWNSHIP	ON	CAN	44.52	75.40	90	S	33.98	1986	53.0	
7734230.0	1977	SOPERTON	ON	CAN	44.37	76.03	90	S	37.70	1984	55.0	
7734240.0	1977	SOPERTON	ON	CAN	44.37	76.03	90	S	39.85	1986	16.5	
7734270.0	1977	ERNESTOWN TOWNSHIP	ON	CAN	44.10	76.48	80	S	35.92	1984	70.0	
7734280.0	1977	ERNESTOWN TOWNSHIP	ON	CAN	44.10	76.48	80	S	27.70	1984	57.5	
7734290.0	1977	ERNESTOWN TOWNSHIP	ON	CAN	44.10	76.48	80	S	44.12	1984	53.0	
7734310.0	1977	ERNESTOWN TOWNSHIP	ON	CAN	44.10	76.48	80	S	30.38	1984	70.0	
7734400.0	1977	ELZEVIR TOWNSHIP	ON	CAN	44.34	77.16	150	S	25.73	1984	57.0	
7734410.0	1977	ELZEVIR TOWNSHIP	ON	CAN	44.34	77.16	150	S	27.58	1984	29.3	
7734420.0	1977	KILLBEAR PROV. PARK	ON	CAN	45.21	80.12	180	S	41.29	1986	30.5	
7734430.0	1977	KILLBEAR PROV. PARK	ON	CAN	45.21	80.12	180	S	38.27	1986	18.0	
7734440.0	1977	KILLBEAR PROV. PARK	ON	CAN	45.21	80.12	180	S	41.10	1986	33.5	
7734470.0	1977	RONDEAU PROV. PARK	ON	CAN	42.07	81.51	180	S	35.14	1984	63.0	
7734480.0	1977	RONDEAU PROV. PARK	ON	CAN	42.07	81.51	180	S	24.53	1984	30.0	
7734490.0	1977	RONDEAU PROV. PARK	ON	CAN	42.07	81.51	180	S	50.94	1984	46.5	
7734520.0	1977	KINGSCOURT	ON	CAN	42.56	81.57	210	S	29.76	1986	47.3	
7734530.0	1977	KINGSCOURT	ON	CAN	42.56	81.57	210	S	28.12	1986	11.0	
7734560.0	1977	KINGSCOURT	ON	CAN	42.56	81.57	210	S	35.67	1986	39.5	
7734580.0	1977	BLENHEIM	ON	CAN	42.19	81.57	180	S	38.92	1984	54.0	
7734600.0	1977	PORT BURWELL	ON	CAN	42.41	80.49	210	S	51.68	1985	23.0	
7734620.0	1977	PORT BURWELL	ON	CAN	42.41	80.49	210	S	37.93	1986	26.5	
7734660.0	1977	NORWICH	ON	CAN	42.59	80.33	213	S	39.68	1984	45.4	
7734730.0	1977	PORT DOVER	ON	CAN	42.51	80.10	213	S	39.08	1984	58.7	
7734750.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.14	79.10	76	S	53.55	1986	53.5	
7734780.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.14	79.10	76	S	38.13	1986	21.0	
7734790.0	1977	NIAGARA-ON-THE-LAKE	ON	CAN	43.14	79.10	76	S	34.08	1984	44.0	
7734830.0	1977	WAINFLEET	ON	CAN	42.56	79.23		S	36.71	1984	48.0	
7734880.0	1977	WESTOVER	ON	CAN	43.20	80.05	244	S	26.07	1984	63.0	
7734890.0	1977	WESTOVER	ON	CAN	43.20	80.05	244	S	27.60	1984	35.0	
7734910.0	1977	WASHINGTON	ON	CAN	43.17	80.34	274	S	37.30	1986	26.0	
7735010.0	1977	BOGNOR	ON	CAN	44.31	80.47	244	S	47.36	1986	24.5	
7735020.0	1977	BOGNOR	ON	CAN	44.31	80.47	244	S	31.40	1986	24.0	
7735030.0	1977	MEAFORD	ON	CAN	44.35	80.31	183	S	33.45	1986	16.0	
7735040.0	1977	MEAFORD	ON	CAN	44.35	80.31	183	S	36.19	1986	58.5	
7735050.0	1977	MEAFORD	ON	CAN	44.35	80.31	183	S	34.62	1986	24.0	
7735060.0	1977	MEAFORD	ON	CAN	44.35	80.31	183	S	36.12	1984	62.0	
7735070.0	1977	MEAFORD	ON	CAN	44.35	80.31	183	S	33.02	1985	32.0	
7735100.0	1977	COLDWATER	ON	CAN	44.43	79.37	183	S	20.38	1986	20.0	
7735110.0	1977	COLDWATER	ON	CAN	44.43	79.37	183	S	57.52	1986	22.5	
7735140.0	1977	TINY MARSH	ON	CAN	44.36	79.56	213	S	21.10	1984	43.5	
7735170.0	1977	TINY MARSH	ON	CAN	44.36	79.56	213	S	34.88	1984	65.3	
7735190.0	1977	STOUFFVILLE	ON	CAN	43.57	79.14	213	S	41.45	1984	51.6	
7735200.0	1977	STOUFFVILLE	ON	CAN	43.57	79.14	213	S	36.28	1986	5.5	
7735220.0	1977	GAMEBRIDGE	ON	CAN	44.31	79.10	213	S	30.38	1986	20.0	
7735230.0	1977	GAMEBRIDGE	ON	CAN	44.31	79.10	213	S	31.41	1986	8.5	
7735280.0	1977	CANTON	ON	CAN	43.59	78.21	152	S	33.19	1986	15.5	
7736000.0	1977	CUMBERLAND	ON	CAN	45.31	75.25	91	S	38.78	1985	32.0	
7736010.0	1977	CUMBERLAND	ON	CAN	45.31	75.25	91	S	35.74	1986	27.0	
7736030.0	1977	CUMBERLAND	ON	CAN	45.31	75.25	91	S	23.94	1986	40.0	
7736040.0	1977	CUMBERLAND	ON	CAN	45.31	75.25	91	S	29.59	1984	79.0	
7739262.0	1977	OXFORD TOWNSHIP	ON	CAN	44.52	75.40	90	B(4)	34.52	1986	32.5	
7739263.0	1977	WINGHAM	ON	CAN	43.55	81.23	305	B(4)	35.66	1986	36.5	
7739264.0	1977	TINY MARSH	ON	CAN	44.36	79.56	213	B(3)	35.96	1986	46.5	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8330071.0	1983	THOROLD	ON	CAN	43.07	79.22		S	44.32	1984	51.0	
9130023.0	1991	PETAWAWA POINT	ON	CAN	45.55	77.15		S	39.44			
9130024.0	1991	PETAWAWA POINT	ON	CAN	45.55	77.15		S	59.68			
9130026.0	1991	CORMAC	ON	CAN	45.28	77.27		S	50.46			
9130027.0	1991	LAKE DORE	ON	CAN	45.36	77.04		S	50.37			
SPECIES	26.200	JUGLANS CINEREA (butternut)										
8430059.0	1984	FONTHILL	ON	CAN	43.04	79.20	205	B(3)	7722.25			
8430065.0	1984	FORESTERS FALLS	ON	CAN	45.42	76.42	150	S				
9030042.0	1990	PEMBROKE	ON	CAN	45.49	77.07	110	B	10487.85			
SPECIES	26.400	JUGLANS NIGRA (black walnut)										
9030012.0	1990	WESTMEATH	ON	CAN	45.50	76.54	110	S	15189.47			
9030041.0	1990	PERTH	ON	CAN	44.54	76.15		S				
SPECIES	27.250	JUNIPERUS COMMUNIS (common Juniper)										
8930637.0	1989	CHALK RIVER	ON	CAN	46.03	77.22		S	11.18			
8930638.0	1989	CHALK RIVER	ON	CAN	46.03	77.22		S	9.83			
SPECIES	27.300	JUNIPERUS VIRGINIANA (eastern red cedar) Juniper)										
8430084.0	1984	TRENTON	ON	CAN	44.08	77.35	75	S	12.68	1985	2.5	
8431612.0	1984	BELLEVILLE	ON	CAN	44.10	77.25	90	S	11.60			
8431613.0	1984	BELLEVILLE	ON	CAN	44.11	77.22	90	S	13.23			
8431614.0	1984	BELLEVILLE	ON	CAN	44.10	77.25	90	S	13.73			
SPECIES	27.400	KOELREUTERIA PANICULATA (golden rain tree)										
8330021.0	1983	VINELAND	ON	CAN	43.09	79.23	90	S	158.32	1983	13.0	PL
SPECIES	27.600	KETELEERIA CHIEN-PEII FLOUS										
7887020.0	1978	CHING-YEN,GUIZHOU PROV.		CHN	29.45	104.04E	1200	N/A	71.87	1984	0.1	
SPECIES	28.100	LARIX DECIDUA (European larch)										
1180015.0		JAEGERSBORG HEGN FB1		DNK				N/A	5.52	1989	46.2	
7485230.0	1974	FARUM, RAVNSHOLT		DNK	55.49	12.23E		B	6.71	1989	28.0	PL-IMPROVED ALPS
7485240.0	1974	JAGERSBORG		DNK	55.45	12.30E		B	7.28	1988	7.5	PL -IMPROVED SUDETAN
7485280.0	1974	EUROP. BUNDESSTR.		DEU				N/A	5.67	1988	42.5	PL -INT. SP. HYBRIDS
7789170.0	1977	MIEDZYLESIE FOR. INSP.		POL	50.15	16.30E	500	B	5.87	1989	4.0	
7983980.0	1979	CHOCEN		CSK	50.00	16.18E	280	B	6.11	1989	32.0	
7983990.0	1979	RUDA		CSK	50.00	16.54E	550	B	5.99	1989	42.0	
8380649.0	1983	CESKY KRUMLOV, CHVALSINY		CSK	48.48	14.10E	520	N/A	6.33	1988	52.5	
8380650.0	1983	RAJEC,LETOVICE		CSK	49.60	16.50E	440	N/A	5.73	1988	20.0	
8530192.0	1985	OTTAWA	ON	CAN	45.19	75.38	100	B(8)	5.44	1986	69.0	PL
8580206.0	1985	TYN N. BEC., FRENSTAT		CSK	49.32	17.37E	320	B	5.33	1986	52.5	
8580207.0	1985	BRNICKO, ZABREH		CSK	49.54	17.00E	420	B	5.06	1986	61.5	
8580208.0	1985	ALBRECHTICE		CSK	50.10	17.33E	600	B	6.34	1986	48.0	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
SPECIES 28.170 LARIX DECIDUA var. SUDETICA												
1180012.0		LITOVEL, USOV		DNK			340	N/A	5.18	1989	2.2	
SPECIES 28.200 LARIX EUROLEPIS (Dunkeld larch)												
7285630.0	1972	HOLBAEK		DNK	56.33	10.19E		CP	3.50	1988	58.0	PL -IMP. JAP X ALPS
7485250.0	1974	JAP. BRAAK		DEU				B	4.97	1988	36.5	PL -MOSTLY HYBRIDS
7485260.0	1974	EUROP. BUDINGEN		DEU				B	5.67	1988	6.0	PL -MOSTLY HYBRIDS
7485290.0	1974	FAREFOLDEN		DNK	56.28	8.17E		CP	8.25	1988	13.0	PL - ALPS X JAP
7485320.0	1974	KLOSTERHEDEN		DNK	56.30	8.20E		B	7.72	1988	5.5	PL
7687820.0	1976	CATEGORY 3		DEU				B	5.93	1990	16.2	PL
SPECIES 28.300 LARIX GMELINI (Dahurian larch)												
7195500.0	1971	HEILONGJIANG PROVINCE		CHN	47.00	127.00E		B	4.28	1986	78.0	
7687900.0	1976	TARTU, ESTONIYA S.S.R.		SUN	58.23	26.49E		B	5.85	1988	40.0	
8081830.0	1980	YAKUTSKAYA A.S.S.R.		SUN	62.00	13.00E		B	3.62	1988	80.0	
8380678.0	1983	HU-LUN-PEI-ERH		CHN	50.00	124.00E	200	N/A	4.64	1989	84.5	
8481647.0	1984	AMUR, HEILONGJIANG PROV.		CHN	52.45	123.12E		N/A	4.32	1986	61.5	
SPECIES 28.400 LARIX LARICINA (tamarack) eastern larch)												
7031510.0	1970	BISSETT CREEK	ON	CAN	46.13	78.01	171	S	2.47	1988	71.2	
7031540.0	1970	BISSETT CREEK	ON	CAN	46.13	78.01	171	S	2.91	1988	91.8	
7031560.0	1970	SUPPLE LAKE	ON	CAN	45.49	77.18	187	S	2.36	1988	10.0	
7031570.0	1970	SUPPLE LAKE	ON	CAN	45.49	77.18	187	S	2.22	1988	3.5	
7031580.0	1970	P.N.F.I.	ON	CAN	45.58	77.25	168	S	1.99	1988	22.8	
7031610.0	1970	P.N.F.I.	ON	CAN	45.58	77.25	168	S	2.54	1988	40.5	
7031620.0	1970	P.N.F.I.	ON	CAN	45.58	77.25	168	S	2.46	1988	19.0	
7031630.0	1970	SUPPLE LAKE	ON	CAN	45.49	77.18	187	S	1.74	1988	9.5	
7831590.0	1978	P.N.F.I.	ON	CAN	45.58	77.24	160	N/A	1.80	1990	11.0	
7930150.0	1979	BOBCAYGEON ROAD	ON	CAN	45.00	78.46	480	S	1.99	1989	97.3	
7930170.0	1979	BOBCAYGEON ROAD	ON	CAN	45.00	78.46	480	S	2.03	1989	57.5	
7930280.0	1979	CORNWALL DIST. (60-6200)	ON	CAN	45.12	75.04	80	B	2.15	1989	67.0	ONNR-RSB
7930290.0	1979	ROBERTSON LAKE	ON	CAN	45.12	76.36	275	B	2.66	1989	80.0	
7930310.0	1979	CARLSBAD SPRINGS	ON	CAN	45.22	75.28		B(25)	2.30	1990	79.5	
7930320.0	1979	GLOUCESTER TOWNSHIP	ON	CAN	45.22	75.30		B(15)	2.30	1990	84.2	
7931570.0	1979	IGNACE TOWNSHIP	ON	CAN	49.25	91.40	450	S	1.84	1989	81.0	
7931590.0	1979	IGNACE TOWNSHIP	ON	CAN	49.25	91.40	450	S	1.59	1989	72.0	
8233200.0	1982	CARLETON DISTRICT	ON	CAN	45.08	76.09		S	2.30	1990	3.0	
8820310.0	1988	ALBANEL	PQ	CAN	48.53	72.27		B	2.62	1989	91.5	
8930635.0	1989	P.N.F.I.	ON	CAN	45.59	77.27		S	1.78	1990	68.0	
8930636.0	1989	P.N.F.I.	ON	CAN	45.58	77.27		S	2.22	1990	71.2	
SPECIES 28.500 LARIX LEPTOLEPIS (Japanese larch)												
1180011.0		SOSTRUP, F40D		DNK				N/A	5.16	1990	68.0	
6682240.0	1966	HOKKAIDO PREFECTURE		JPN	43.00	141.30E		N/A	4.16	1989	1.0	PL
6682481.0	1966	TOKACHI DIST., HOKKAIDO		JPN	43.00	141.30E		B	5.48	1990	0.1	PL
6980500.0	1969	CENTRAL HONSHU		JPN	35.00	136.00E		B	4.18	1989	1.0	
7487514.0	1974	NAGANO PREFECTURE		JPN	35.47	137.52E	1700	N/A	3.53	1989	32.5	
7487515.0	1974	NAGANO PREFECTURE		JPN	36.24	138.32E	1750	N/A	4.09	1989	9.8	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7487516.0	1974	NAGANO PREFECTURE		JPN	35.55	138.18E	1700	N/A	4.21	1989	1.0	
7487517.0	1974	NAGANO PREFECTURE		JPN	35.52	137.32E	1650	N/A	3.98	1989	20.5	
7487518.0	1974	GUNMA PREFECTURE		JPN	36.27	138.23E	1800	N/A	3.57	1989	34.2	
7687890.0	1976	TARTU, ESTONIYA S.S.R.		SUN	58.23	26.49E		B	6.09	1984	20.8	
8530182.0	1985	BURRITTS RAPIDS	ON	CAN	44.59	75.49	107	B(25)	4.63	1990	70.8	PL
SPECIES 28.700 LARIX OCCIDENTALIS (western larch)												
8470997.0	1984	FLATHEAD VALLEY	BC	CAN	49.04	114.24	1500	S	3.14	1990	20.5	
8470999.0	1984	FLATHEAD VALLEY	BC	CAN	49.04	114.24	1500	S	3.95	1990	16.0	
SPECIES 28.800 LARIX SIBIRICA (Siberian larch)												
8580240.0	1985	KRASNOYARSKIY KRAY		SUN				B	7.20	1990	76.2	
SPECIES 29.100 LIRIODENDRON TULIPIFERA (tulip-tree; yellow poplar)												
7832800.0	1978	FONTHILL	ON	CAN	43.02	79.17	215	N/A	43.33	1984	0.1	
8530067.0	1985	ARNER	ON	CAN	42.01	82.49		S	31.96	1985	6.5	
SPECIES 29.480 MAGNOLIA ACUMINATA (cucumber-tree)												
8430063.0	1984	PELHAM	ON	CAN	43.01	79.20	193	S	92.55			
SPECIES 30.200 MAYTENUS BOARIA												
8690129.0	1986	MES DE MARZO		ARG				N/A	19.55	1986	5.0	
8780169.0	1987	EL BOLSON, RIO NEGRO		ARG	41.58S	71.35	300	N/A	23.25			
SPECIES 30.712 NOTHOFAGUS DOMBEYI												
8690128.0	1986	MES DE MARZO		ARG				N/A	2.57	1986	7.0	
8780171.0	1987	EL BOLSON, RIO NEGRO		ARG	42.01S	71.35	290	N/A	2.15	1987	5.0	
8780172.0	1987	EL BOLSON, RIO NEGRO		ARG	41.55S	71.34	850	N/A	2.16	1987	15.5	
SPECIES 30.718 NOTHOFAGUS NERVOSA												
8780174.0	1987	S. M. ANDES, NEUQUEN		ARG	40.10S	71.20	1200	N/A	10.77	1987	77.0	
8791125.0				ARG				N/A	12.02			
SPECIES 30.720 NOTHOFAGUS OBLIQUA (roble beech)												
7993290.0	1979	NEUQUEN		ARG	38.00S	70.00		S	7.48	1985	19.5	
8780173.0	1987	S. M. ANDES, NEUQUEN		ARG	40.10S	71.20	1200	N/A	7.01	1987	9.5	
8791124.0				ARG				N/A	6.61			
SPECIES 30.730 NOTHOFAGAS PUMILIO (lenga; roble blanco)												
8190140.0	1981	TIERRA DEL FUEGO		ARG	54.00S	68.00		S	25.19	1984		
SPECIES 31.300 OSTRYA VIRGINIANA (ironwood; hop-hornbeam)												
8430082.0	1984	P.N.F.I.	ON	CAN	46.00	77.26	150	S	19.56	1985	0.1	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8430083.0	1984	P.N.F.I.	ON	CAN	46.00	77.26	150	S	20.24	1985	0.1	
SPECIES	31.695	PAULOWNIA FARGESII										
8480984.0	1984	JIANGSU PROVINCE		CHN	32.00	120.00E		N/A	0.28	1985	82.5	
SPECIES	32.100	PICEA ABIES (Norway spruce)										
6220010.0	1962	PRIECELX PLANTATIONS	PQ	CAN				B	9.68	1989	36.0	
6480280.0	1964	BRUKSFRO, GUNNARSKOG		SWE	59.48	12.34E	300	B	5.64	1990	2.0	
6781810.0	1967	BRUKSFRO, GUNNARSKOG		SWE	59.48	12.34E	300	B	5.26	1987	70.8	
6880270.0	1968	IVANTJARN		SWE	60.48	16.45E	240	B	6.65	1991	57.2	
6880280.0	1968	CENTRAL FINLAND		FIN	62.00	24.00E		B	5.01	1989	20.5	
7383260.0	1973	COSNA FOREST DISTRICT		ROM	27.00	45.00E		B	6.92	1989	3.0	
7486820.0	1974	PRIENU, LITVA S.S.R.		SUN	54.12	23.51E	107	S	6.67	1989	73.0	
7486830.0	1974	VILNIAUS, LITVA S.S.R.		SUN	54.48	25.18E	150	S	6.84	1991	42.5	
7581500.0	1975	TARTU, ESTONIYA S.S.R.		SUN	58.22	26.46E	60	B	5.90	1989	81.2	
7886810.0	1978	ARKHANGEL'SKAYA OBLAST		SUN	65.45	43.14E		B	4.55	1989	0.8	
7886820.0	1978	VOLOGODSKAYA OBLAST		SUN	59.11	38.00E		B	5.57	1989	42.0	
7886830.0	1978	KOSTROMSKAYA OBLAST		SUN	57.00	42.00E		B	4.95	1989	24.5	
7886840.0	1978	KALININSKAYA OBLAST		SUN	57.00	37.00E		B	6.90	1989	61.2	
7984110.0	1979	KOSTROMSKAYA OBLAST		SUN	58.00	41.00E		B	5.03	1987	55.8	
7985014.0	1979	REMNINGSTORP SEED ORCH.		SWE				B	8.67	1986	89.5	PL
8082223.0	1980	VYHLEDY, DOMAZLICE		CSK	49.24	12.48E	600	B	7.11	1990	91.2	
8082224.0	1980	KRALUV HVOZD, NYRSKO		CSK	49.14	13.10E	700	B	7.64	1990	92.0	
8082225.0	1980	LANY, NASAVRSKY		CSK	49.43	15.56E	700	B	7.40	1990	92.0	
8082226.0	1980	HORNI BECVA, ROZNOV		CSK	49.26	18.19E	680	B	6.86	1990	93.2	
8082227.0	1980	STARE HAMRY, OSTRAVICE		CSK	49.32	18.24E	740	B	8.21	1990	95.2	
8181010.0	1981	KALUZHKAYA OBLAST		SUN	54.00	35.00E		B	5.89	1989	75.0	
8181574.0	1981	HORY REJSTEJN, KASPERSKE		CSK	49.08	13.30E	940	B	6.86	1990	34.5	
8181575.0	1981	STRAZNY, VIMPERK		CSK	48.55	13.43E	920	B	7.56	1990	38.5	
8181576.0	1981	CES. ZLEBY, PRACHATICE		CSK	48.53	13.48E	880	B	7.62	1990	65.5	
8181577.0	1981	HUTE, ROZMITAL P. T.		CSK	49.35	13.50E		B	7.45	1990	82.3	
8181578.0	1981	VLTAVA, CES. KRUMLOV		CSK	48.46	14.22E	780	B	7.46	1990	79.7	
8181579.0	1981	DROZDANY, PELHRIMOV		CSK	49.20	15.12E	710	B	7.86	1990	58.0	
8181580.0	1981	CIKHAJ, NOVE MESTO		CSK	49.40	15.58E	730	B	7.39	1990	55.0	
8181581.0	1981	HERALEC, NOVE MESTO		CSK	49.41	16.00E	750	B	7.39	1990	29.0	
8181582.0	1981	DESTNE, OPOCNO		CSK	50.18	16.22E	900	B	7.81	1990	41.2	
8181583.0	1981	RICKY, RYCHNOV N. K.		CSK	50.13	16.29E	840	B	7.19	1986	60.5	
8181584.0	1981	DETRICHOV, BRUNTAL		CSK	49.50	17.26E	680	B	7.05	1986	82.0	
8286124.0	1982	VITKUV KAMEN, VYSSI BROD		CSK	48.38	14.10E	860	B	7.53	1986	51.0	
8380651.0	1983	BUCHLOVICE, ROSTIN		CSK	49.20	17.40E	450	N/A	7.98	1988	86.0	
8380653.0	1983	ZVESTOVICE		CSK	49.60	14.30E	600	N/A	7.27	1988	79.2	
8380862.0	1983	BOURIN, PRACHATICE		CSK	49.02	13.48E	1010	B	8.67	1991	82.2	
8380863.0	1983	POHORSKA VES, NOVE HRADY		CSK	48.40	14.37E	800	B	9.14	1991	80.5	
8380864.0	1983	CER. UDOLI, NOVE HRADY		CSK	48.45	14.47E	800	B	9.50	1986	89.0	
8380865.0	1983	KUNZAK, CES. RUDOLEC		CSK	49.08	15.12E	720	B	8.95	1991	88.5	
8480952.0	1984	G. AMOT		SWE	61.00	16.30E	250	N/A	4.69	1989	74.8	
8481610.0	1984	SEED ORCHARD-S21P8420002		SWE				B	10.29	1991	88.0	PL
8580203.0	1985	JAVORINKA		CSK	48.59	18.35E	1240	B	7.16	1991	54.2	
8580204.0	1985	LUPCA, SLOVENSKA		CSK	48.46	19.16E	1100	B	7.26	1991	46.2	
8580252.0	1985	MOLDOVITA		ROM	47.44	25.24E	900	B	7.92	1991	77.5	
8780777.0	1987	PRIENAI,LITHUANIAN SSR		SUN	54.45	23.47E	140	B	7.39	1989	64.2	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8780778.0	1987	ROKISKIS,LITHUANIAN SSR		SUN	55.50	25.20E	130	B	7.66	1989	40.0	
8780779.0	1987	KAZLU-RUDA,LITHUANIAN		SUN	54.25	23.35	120	B	7.54	1989	34.8	
8781128.0	1987	SOR AMSBERG		SWE	60.31	14.09E	275	B	5.38	1990	90.0	
8881180.0	1988	ORAVITA		ROM	45.10	22.10E	820	B	6.01	1991	60.0	
SPECIES	32.150	PICEA ASPERATA (dragon spruce; Chinese spruce)										
7886950.0	1978	LI-HSIEN,SZECHUAN PROV.		CHN	31.40	102.48E	3000	N/A	6.61	1984	84.0	
SPECIES	32.400	PICEA ENGELMANNII (Enselmann spruce)										
5980069.0		CACHE NATIONAL FOREST		USA	42.00	113.30		B	4.28	1989	30.5	HYBRID
7161950.0	1971	HIGHWOOD SUMMIT	AB	CAN	50.20	114.30	2225	B(50)	1.88	1987	31.0	
7186160.0	1971	HUNGRY HORSE	MT	USA	48.21	113.58	1100	B(15)	2.50	1987	14.0	
8470992.0	1984	BASTION MOUNTAIN	BC	CAN	50.52	119.09	1600	B(50)	2.13	1990	66.0	
8470993.0	1984	ADAMS LAKE	BC	CAN	51.30	119.30	1400	B(12)	2.06	1990	55.0	
8572251.0	1985	NEWINGTON CREEK	BC	CAN	49.15	116.50	1550	B*	1.94	1990	98.0	B(30+)
8871105.0	1988	AINSLIE CREEK	BC	CAN	50.02	121.22	1300	B*	2.21	1990	86.0	B(150+)
SPECIES	32.500	PICEA GLAUCA (white spruce)										
24560.0	1956	LAKE ST. PATRICK	PQ	CAN	46.18	77.19	304	B	2.04	1987	25.0	
24690.0	1956	AYLMER LAKE	PQ	CAN	45.59	71.22	304	S	2.32	1987	59.2	
24720.0	1956	PRICE	PQ	CAN	48.36	68.07	304	S	1.89	1987	44.8	
24770.0	1956	ASHLEY MINE	ON	CAN	48.00	81.00	365	S	1.80	1987	27.2	
24840.0	1956	MITCHINAMEKUS LAKE	PQ	CAN	47.23	75.09	396	S	1.76	1987	24.5	
24850.0	1956	LAC SIMARD	PQ	CAN	47.32	78.37	274	S	2.00	1987	44.8	
26940.0	1960	A.F.E.S.	NB	CAN	46.00	66.21	76	S	2.46	1987	63.2	
28700.0	1959	KAPUSKASING	ON	CAN	48.55	82.47	259	S	2.22	1987	13.8	
28950.0		GRANDES-PILES	PQ	CAN	46.45	73.05	365	S	2.45	1983	47.0	
51930.0		WESTHEATH TOWNSHIP	ON	CAN	45.50	74.50	121	S	2.17	1987	60.2	
1130023.0		ACROSS CANADA		CAN				B	2.23	1989	86.8	
5310010.0	1953	KLONDYKE ROAD	PE	CAN	46.25	62.28	60	S	2.46	1987	41.0	
5530010.0	1955	ANGUS	ON	CAN	44.15	79.55	220	N/A	2.69	1990	11.5	
5620220.0	1956	CASEY	PQ	CAN	47.53	74.11		N/A	1.65	1987	10.2	
5620290.0	1956	MCNALLY LAKE	PQ	CAN	46.32	76.30	243	N/A	2.12	1987	16.8	
5630260.0	1956	ALGONQUIN PARK	ON	CAN	45.34	78.36	426	S	1.97	1987	76.5	
5630270.0	1956	MAYNOOTH	ON	CAN	45.14	77.56	394	N/A	2.12	1990	10.8	
5630300.0	1956	MANITOULIN ISLAND	ON	CAN	45.50	82.55	205	N/A	2.11	1988	15.0	
5810010.0	1958	GYPSUM MINES	NS	CAN	44.59	64.04	30	N/A	2.10	1987	71.2	
6030480.0	1960	P.N.F.I.	ON	CAN	45.58	77.24	160	N/A	1.86	1990	28.8	
6430340.0	1964	P.N.F.I.	ON	CAN	45.58	77.24	160	N/A	1.98	1990	0.1	
6530740.0	1965	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.76	1990	7.0	
6530760.0	1965	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.40	1987	50.5	
6531000.0	1965	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.14	1990	10.5	
6630010.0	1966	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	N/A	2.94	1990	28.8	
6630020.0	1966	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	N/A	3.24	1987	41.5	
6632390.0	1966	P.N.F.I.	ON	CAN	45.58	77.24	160	S	1.98	1990	26.8	
6730660.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	1.71	1990	30.2	
6730670.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	1.92	1987	64.0	
6730680.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	1.69	1987	83.8	
6730690.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.10	1987	96.0	
6730700.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.34	1988	39.2	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
6730710.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.10	1987	70.8	
6730740.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.13	1990	43.5	
6730750.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	1.52	1990	65.8	
6730760.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	1.82	1990	56.5	
6730800.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.01	1987	15.2	
6730830.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	B	2.18	1988	79.8	
6731000.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	1.72	1989	85.5	
6731020.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.24	1989	88.0	
6731030.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	1.59	1989	90.0	
6731050.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	1.53	1987	47.0	
6731060.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	1.51	1988	27.0	
6731110.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.44	1987	96.0	
6731120.0	1967	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.47	1988	86.8	
6731800.0	1967	SAULT STE. MARIE	ON	CAN	46.31	84.20		N/A	2.05	1987	84.5	
6800190.0	1968	GANDER	NF	CAN	48.57	54.45	91	B	2.75	1990	10.0	
7000780.0	1970	GRAND FALLS	NF	CAN	48.55	55.51	106	B(28)	2.76	1987	95.3	
7000790.0	1970	GRAND LAKE	NF	CAN	48.53	57.36	45	B(32)	3.28	1987	88.8	
7010750.0	1970	A.F.E.S.	NB	CAN	46.00	66.21	76	N/A	2.33	1988	94.5	
7011120.0	1970	HARBOUR CENTRE	NS	CAN	45.47	61.56	91	N/A	2.20	1987	90.0	
7011150.0	1970	ST. ANN'S	NS	CAN	46.16	60.37	137	B(10)	2.41	1988	52.0	
7011160.0	1970	GLENCOE	NS	CAN	45.57	61.19	167	B(7)	2.60	1987	63.2	
7011170.0	1970	GAGETOWN	NB	CAN	45.32	66.21	167	N/A	2.13	1987	91.0	
7020760.0	1970	ST. ELZEAR	PQ	CAN	48.15	65.27	365	B(10)	2.35	1987	63.5	
7020770.0	1970	LAC-A-LA-TORTUE	PQ	CAN	46.39	72.36	131	B(10)	2.08	1987	91.9	
7020800.0	1970	WATOPEKA FOREST	PQ	CAN	45.35	71.54	213	B(5)	2.62	1987	81.8	
7030640.0	1970	BEACHBURG	ON	CAN	45.40	76.47	137	S	2.27	1987	95.2	
7030670.0	1970	ALICE	ON	CAN	45.45	77.18	182	S	2.55	1987	96.5	
7030700.0	1970	ALICE	ON	CAN	45.45	77.18	182	S	2.03	1988	91.0	
7030730.0	1970	ALICE	ON	CAN	45.45	77.18	182	S	3.28	1988	29.5	
7030740.0	1970	COCHRANE	ON	CAN	49.10	81.15	265	N/A	2.22	1987	68.5	
7031130.0	1970	RANWICK MINE	ON	CAN	47.15	83.35	228	B(4)	2.21	1987	86.2	
7061820.0	1970	NORDEGG	AB	CAN	52.11	116.00	1372	N/A	2.70	1990	73.8	
7061830.0	1970	ROCKY MOUNTAIN HOUSE	AB	CAN	52.35	115.15	762	N/A	2.60	1988	85.0	
7063220.0	1970	SLAVE LAKE	AB	CAN	55.14	114.36	610	B	2.15	1988	0.2	
7072020.0	1970	SUNDOWN CREEK	BC	CAN	55.20	120.40	1127	N/A	2.11	1987	39.2	
7073740.0	1970	PARROTT LAKES	BC	CAN	54.11	126.40	823	B	1.92	1988	16.8	
7073760.0	1970	GAGNON CREEK	BC	CAN	55.15	123.05	914	B	2.00	1988	10.2	
7073800.0	1970	MCDAME POST	BC	CAN	59.10	129.15	762	B	1.97	1988	8.5	
7073820.0	1970	FORT FRASER	BC	CAN	53.52	124.37	762	B	1.82	1988	8.2	
7073830.0	1970	LOWER POST	BC	CAN	59.55	128.30	640	B	1.76	1988	17.0	
7100450.0	1971	PASADENA	NF	CAN	49.01	57.37	45	N/A	2.91	1990	9.8	
7130500.0	1971	ALICE	ON	CAN	45.45	77.18	182	N/A	2.65	1990	59.5	
7130510.0	1971	ALICE	ON	CAN	45.45	77.18	182	N/A	2.18	1988	0.5	
7130560.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	S	2.50	1990	93.0	
7130570.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	N/A	2.69	1987	94.0	
7130580.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	N/A	2.61	1988	84.5	
7130590.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	N/A	2.50	1987	95.8	
7130600.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	N/A	2.36	1987	98.5	
7130610.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	B(4)	2.40	1990	62.0	
7130620.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	S	2.89	1987	95.2	
7130630.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	S	2.22	1989	92.5	
7130640.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	S	2.75	1987	80.2	
7130650.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	S	3.07	1989	94.0	

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7130660.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	N/A	1.82	1988	94.0	
7130670.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	S	2.06	1988	2.8	
7130680.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	N/A	2.26	1988	0.8	
7130700.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	B(2)	2.49	1987	70.5	
7132350.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	S	2.10	1988	68.0	
7132380.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	S	2.82	1988	16.5	
7132440.0	1971	WHITNEY	ON	CAN	45.31	78.15	457	S	2.82	1988	91.0	
7132450.0	1971	TROUT CREEK	ON	CAN	45.59	79.27	335	S	2.39	1988	30.0	
7132460.0	1971	TROUT CREEK	ON	CAN	45.59	79.27	335	S	3.30	1987	72.5	
7132470.0	1971	TROUT CREEK	ON	CAN	45.59	79.27	335	S	3.49	1988	58.5	
7132520.0	1971	TROUT CREEK	ON	CAN	45.59	79.27	335	S	3.14	1988	10.2	
7132540.0	1971	TROUT CREEK	ON	CAN	45.59	79.27	335	S	2.33	1988	29.2	
7132550.0	1971	JOCKO RIVER	ON	CAN	46.36	79.10	304	S	2.01	1988	55.8	
7132560.0	1971	JOCKO RIVER	ON	CAN	46.36	79.10	304	S	1.99	1988	1.2	
7132570.0	1971	JOCKO RIVER	ON	CAN	46.36	79.10	304	S	2.16	1988	15.0	
7132580.0	1971	JOCKO RIVER	ON	CAN	46.36	79.10	304	S	2.40	1988	81.2	
7132590.0	1971	JOCJO RIVER	ON	CAN	46.36	79.10	304	S	2.27	1988	74.8	
7132620.0	1971	JOCKO RIVER	ON	CAN	46.36	79.10	304	S	1.93	1988	50.0	
7132630.0	1971	JOCKO RIVER	ON	CAN	46.36	79.10	304	S	2.19	1988	35.2	
7132640.0	1971	JOCKO RIVER	ON	CAN	46.36	79.10	304	S	3.38	1988	88.0	
7132650.0	1971	RUTHERGLEN	ON	CAN	46.17	79.04	228	S	2.47	1988	44.5	
7132660.0	1971	RUTHERGLEN	ON	CAN	46.17	79.04	228	S	2.20	1989	69.8	
7132670.0	1971	RUTHERGLEN	ON	CAN	46.17	79.04	228	S	2.28	1988	86.0	
7132690.0	1971	RUTHERGLEN	ON	CAN	46.17	79.04	228	S	2.86	1988	93.5	
7132700.0	1971	RUTHERGLEN	ON	CAN	46.17	79.04	228	S	2.05	1988	7.8	
7132710.0	1971	RUTHERGLEN	ON	CAN	46.17	79.04	228	S	1.80	1990	99.0	
7132720.0	1971	RUTHERGLEN	ON	CAN	46.17	79.04	228	S	2.18	1987	59.9	
7132730.0	1971	RUTHERGLEN	ON	CAN	46.17	79.04	228	S	2.10	1987	30.4	
7132740.0	1971	RUTHERGLEN	ON	CAN	46.17	79.04	228	S	2.36	1988	22.2	
7132790.0	1971	JOCKO RIVER	ON	CAN	46.14	80.43	213	S	2.21	1988	91.2	
7132810.0	1971	JOCKO RIVER	ON	CAN	46.14	80.43	213	S	1.54	1990	95.8	
7132840.0	1971	SEARCHMONT	ON	CAN	46.44	83.56	365	S	2.73	1988	69.0	
7132870.0	1971	SEARCHMONT	ON	CAN	46.44	83.56	365	S	2.46	1988	20.2	
7132980.0	1971	WAWA	ON	CAN	47.55	84.45	304	S	2.07	1988	29.0	
7133000.0	1971	BOUCHARD LAKE	ON	CAN	48.47	85.30	457	S	2.16	1987	97.8	
7133010.0	1971	BOUCHARD LAKE	ON	CAN	48.47	85.30	457	S	2.15	1988	50.2	
7133040.0	1971	BOUCHARD LAKE	ON	CAN	48.47	85.30	457	S	1.52	1988	44.5	
7133050.0	1971	BOUCHARD LAKE	ON	CAN	48.47	85.30	457	S	2.37	1987	96.2	
7133060.0	1971	BOUCHARD LAKE	ON	CAN	48.47	85.30	457	S	1.60	1988	2.5	
7133070.0	1971	BOUCHARD LAKE	ON	CAN	48.47	85.30	457	S	1.58	1988	26.5	
7133110.0	1971	PIGEON R[illegible]	ON	CAN	48.01	89.39	304	S	1.87	1988	38.0	
7133160.0	1971	PIGEON R[illegible]	ON	CAN	48.01	89.39	304	S	1.84	1988	14.0	
7133180.0	1971	SHEBANDOWAN	ON	CAN	48.37	90.11	457	S	2.70	1988	38.8	
7133190.0	1971	SHEBANDOWAN	ON	CAN	48.37	90.11	457	S	1.94	1988	17.8	
7133210.0	1971	SHEBANDOWAN	ON	CAN	48.37	90.11	457	S	2.05	1988	1.2	
7133220.0	1971	SHEBANDOWAN	ON	CAN	48.37	90.11	457	S	2.29	1988	56.2	
7133230.0	1971	EVA LAKE	ON	CAN	48.40	91.25	426	S	1.45	1988	19.3	
7133260.0	1971	EVA LAKE	ON	CAN	48.40	91.25	426	S	1.70	1988	21.0	
7133280.0	1971	EVA LAKE	ON	CAN	48.40	91.25	426	S	1.88	1988	11.5	
7133290.0	1971	EVA LAKE	ON	CAN	48.40	91.25	426	S	1.54	1987	79.2	
7133300.0	1971	NIPIGON	ON	CAN	49.12	88.13	228	S	2.03	1988	85.0	
7133400.0	1971	FINLAND	ON	CAN	48.57	93.56	365	S	1.54	1987	84.0	
7133410.0	1971	FINLAND	ON	CAN	48.57	93.56	365	S	2.64	1990	94.2	

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7133420.0	1971	FINLAND	ON	CAN	48.57	93.56	365	S	1.88	1987	95.0	
7133430.0	1971	FINLAND	ON	CAN	48.57	93.56	365	S	1.64	1987	88.5	
7133440.0	1971	FINLAND	ON	CAN	48.57	93.56	365	S	1.86	1988	68.2	
7133450.0	1971	FINLAND	ON	CAN	48.57	93.56	365	S	1.64	1987	98.5	
7133460.0	1971	FINLAND	ON	CAN	48.57	93.56	365	S	1.63	1987	96.2	
7133470.0	1971	FINLAND	ON	CAN	48.57	93.56	365	S	1.78	1990	19.5	
7133480.0	1971	FINLAND	ON	CAN	48.57	93.56	365	S	1.87	1987	96.8	
7133490.0	1971	FINLAND	ON	CAN	48.57	93.56	365	S	2.16	1987	73.8	
7133500.0	1971	SIOUX NARROWS	ON	CAN	49.30	94.04	335	S	2.05	1988	21.8	
7133510.0	1971	SIOUX NARROWS	ON	CAN	49.30	94.04	335	S	2.17	1988	95.2	
7133520.0	1971	SIOUX NARROWS	ON	CAN	49.30	94.04	335	S	2.01	1988	64.5	
7133530.0	1971	SIOUX NARROWS	ON	CAN	49.30	94.04	335	S	2.13	1988	84.8	
7133540.0	1971	SIOUX NARROWS	ON	CAN	49.30	94.04	335	S	2.67	1988	56.5	
7133550.0	1971	SIOUX NARROWS	ON	CAN	49.30	94.04	335	S	1.94	1988	35.2	
7133560.0	1971	SIOUX NARROWS	ON	CAN	49.30	94.04	335	S	1.88	1988	11.0	
7133580.0	1971	SIOUX NARROWS	ON	CAN	49.30	94.04	335	S	2.07	1988	65.2	
7133590.0	1971	SIOUX NARROWS	ON	CAN	49.30	94.04	335	S	2.41	1988	25.5	
7133610.0	1971	KENORA	ON	CAN	49.45	94.36	365	S	1.83	1988	56.5	
7133620.0	1971	KENORA	ON	CAN	49.45	94.36	365	S	2.36	1987	88.5	
7133630.0	1971	KENORA	ON	CAN	49.45	94.36	365	S	1.80	1988	47.8	
7133640.0	1971	KENORA	ON	CAN	49.45	94.36	365	S	2.19	1988	93.5	
7133650.0	1971	KENORA	ON	CAN	49.45	94.36	365	S	2.14	1988	93.5	
7133660.0	1971	KENORA	ON	CAN	49.45	94.36	365	S	1.64	1988	86.8	
7133670.0	1971	KENORA	ON	CAN	49.45	94.36	365	S	1.70	1987	93.0	
7133700.0	1971	RAINY LAKE	ON	CAN	48.42	93.03	335	S	2.01	1988	28.0	
7133710.0	1971	RAINY LAKE	ON	CAN	48.42	93.03	335	S	1.95	1988	3.5	
7133720.0	1971	RAINY LAKE	ON	CAN	48.42	93.03	335	S	2.11	1988	17.8	
7133730.0	1971	RAINY LAKE	ON	CAN	48.42	93.03	335	S	1.87	1988	4.5	
7133780.0	1971	CAMP ROBINSON	ON	CAN	50.10	93.15	365	S	2.73	1988	48.8	
7133860.0	1971	SIOUX LOOKOUT	ON	CAN	50.07	91.50	381	S	2.66	1988	47.0	
7133910.0	1971	EAR FALLS	ON	CAN	50.40	93.12	365	S	2.57	1988	0.3	
7133920.0	1971	EAR FALLS	ON	CAN	50.40	93.12	365	S	2.24	1988	3.0	
7133930.0	1971	EAR FALLS	ON	CAN	50.40	93.12	365	S	2.32	1988	10.3	
7134050.0	1971	RED LAKE	ON	CAN	51.02	93.48	365	S	2.35	1987	72.1	
7134100.0	1971	BLACK STURGEON LAKE	ON	CAN	49.30	89.03	274	S	1.79	1987	89.5	
7134110.0	1971	BLACK STURGEON LAKE	ON	CAN	49.30	89.03	274	S	1.42	1990	72.8	
7134120.0	1971	BLACK STURGEON LAKE	ON	CAN	49.30	89.03	274	S	2.18	1988	29.0	
7134130.0	1971	BLACK STURGEON LAKE	ON	CAN	49.30	89.03	274	S	2.22	1988	54.1	
7134140.0	1971	BLACK STURGEON LAKE	ON	CAN	49.30	89.03	274	S	2.04	1990	50.0	
7134150.0	1971	BLACK STURGEON LAKE	ON	CAN	49.30	89.03	274	S	1.68	1990	88.5	
7134160.0	1971	BLACK STURGEON LAKE	ON	CAN	49.30	89.03	274	S	2.02	1988	58.0	
7134170.0	1971	BLACK STURGEON LAKE	ON	CAN	49.30	89.03	274	S	2.20	1988	10.8	
7134180.0	1971	BLACK STURGEON LAKE	ON	CAN	49.30	89.03	274	S	1.66	1988	83.0	
7134190.0	1971	BLACK STURGEON LAKE	ON	CAN	49.30	89.03	274	S	1.74	1988	78.0	
7135630.0	1971	CLUTE TOWNSHIP	ON	CAN	49.05	81.15	289	N/A	2.21	1990	13.2	
7136210.0	1971	FOLEYET	ON	CAN	48.15	82.00		N/A	1.94	1987	77.8	
7151010.0	1971	MEADOW LAKE	SK	CAN	53.50	108.40	640	B(5)	2.15	1988	45.8	
7230770.0	1972	SAND L. ROAD	ON	CAN	45.50	77.20	182	S	2.65	1990	50.8	
7230780.0	1972	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	3.64	1987	73.5	
7230790.0	1972	SAND LAKE ROAD	ON	CAN	45.50	77.20	182	S	2.37	1988	91.0	
7230800.0	1972	SAND LAKE ROAD	ON	CAN	45.50	77.20	182	N/A	2.51	1988	42.7	
7230810.0	1972	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.94	1988	59.5	
7230820.0	1972	BEACHBURG	ON	CAN	45.45	76.50	137	N/A	3.39	1988	79.2	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7230830.0	1972	BEACHBURG	ON	CAN	45.45	76.50	137	N/A	3.02	1987	89.3	
7230850.0	1972	BEACHBURG	ON	CAN	45.45	76.50	137	S	2.89	1988	75.8	
7230860.0	1972	BEACHBURG	ON	CAN	45.45	76.50	150	S	2.38	1990	44.0	
7230870.0	1972	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	150	B	2.88	1987	81.2	
7230880.0	1972	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.64	1988	68.0	
7230890.0	1972	DAVIS MILLS	ON	CAN	45.45	77.15	152	S	2.76	1988	53.5	
7231050.0	1972	RANKIN	ON	CAN	45.45	77.10	152	S	3.22	1987	57.0	
7231140.0	1972	IRVINE CREEK	ON	CAN	44.55	78.05	365	S	2.63	1988	65.8	
7231160.0	1972	IRVINE CREEK	ON	CAN	44.55	78.05	365	S	3.21	1988	27.5	
7231230.0	1972	IRVINE CREEK	ON	CAN	44.55	78.05	365	B(3)	2.69	1987	82.5	
7231270.0	1972	APSLEY	ON	CAN	44.45	78.08	365	N/A	1.93	1988	89.5	
7232640.0	1972	NAIRN TOWNSHIP	ON	CAN	46.20	81.41	243	S	2.31	1988	62.5	
7330600.0	1973	NEEDLE LAKE	ON	CAN	49.57	92.31	396	S	2.06	1990	45.8	
7330850.0	1973	UPSALA	ON	CAN	49.04	90.31	487	S	2.17	1988	6.2	
7330870.0	1973	UPSALA	ON	CAN	49.04	90.31	487	S	2.22	1988	18.0	
7330880.0	1973	UPSALA	ON	CAN	49.04	90.31	487	S	2.12	1988	6.0	
7331060.0	1973	UCHI LAKE	ON	CAN	50.48	93.08	381	S	1.99	1988	18.7	
7333330.0	1973	EAR FALLS	ON	CAN	50.42	93.22	381	B	2.22	1987	82.8	
7333340.0	1973	RED LAKE	ON	CAN	51.06	93.46	396	B	2.13	1988	31.8	
7333350.0	1973	WHITE DOG FALLS	ON	CAN	50.07	94.52	350	B	2.16	1987	78.2	
7341260.0	1973	RIVERTON	MB	CAN	51.00	97.00	213	B	2.52	1988	16.0	
7341270.0	1973	BERNIC LAKE	MB	CAN	50.25	95.36	274	B	2.31	1990	96.0	
7341280.0	1973	ANGLE INLET	MB	CAN	49.19	95.20	335	B	2.11	1987	93.5	
7341290.0	1973	WEST HAWK LAKE	MB	CAN	49.47	95.15	335	B	2.14	1988	91.5	
7350190.0	1973	MEADOW LAKE	SK	CAN	54.10	108.19		N/A	2.18	1984	12.0	
7430410.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	160	S	2.53	1988	88.2	
7430420.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	160	S	2.08	1988	91.8	
7430430.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	160	S	1.87	1988	96.2	
7430450.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	160	S	2.24	1988	96.8	
7430460.0	1974	P.N.F.I.	ON	CAN	45.58	77.24	160	S	2.58	1985	93.0	
7430500.0	1974	P.N.F.I.	ON	CAN	46.00	77.26	160	S	2.07	1988	7.0	
7430540.0	1974	DOUGLAS	ON	CAN	45.30	77.01	121	S	2.57	1985	95.0	
7430570.0	1974	DOUGLAS	ON	CAN	45.30	77.01	121	S	2.01	1988	99.0	
7430580.0	1974	DOUGLAS	ON	CAN	45.30	77.01	121	S	2.51	1990	21.2	
7430590.0	1974	DOUGLAS	ON	CAN	45.33	77.00	121	S	2.66	1988	89.0	
7430600.0	1974	DOUGLAS	ON	CAN	45.33	77.00	121	S	2.02	1988	86.8	
7430610.0	1974	DOUGLAS	ON	CAN	45.33	77.00	121	S	2.89	1988	21.2	
7430630.0	1974	DOUGLAS	ON	CAN	45.33	77.00	121	S	2.96	1988	13.0	
7430660.0	1974	DOUGLAS	ON	CAN	45.38	77.04	152	S	2.95	1988	86.0	
7430670.0	1974	RENFREW	ON	CAN	45.28	76.38	121	S	2.80	1990	88.8	
7430710.0	1974	RENFREW	ON	CAN	45.28	76.44	121	S	2.24	1988	79.8	
7430750.0	1974	RENFREW	ON	CAN	45.28	76.44	121	S	2.40	1988	85.8	
7430760.0	1974	RENFREW	ON	CAN	45.28	76.44	121	S	2.07	1975	96.0	
7430790.0	1974	RENFREW	ON	CAN	45.28	76.44	121	S	2.78	1988	94.8	
7430800.0	1974	RENFREW	ON	CAN	45.28	76.44	121	S	3.46	1988	88.0	
7430810.0	1974	RENFREW	ON	CAN	45.28	76.44	121	S	2.69	1988	98.5	
7430830.0	1974	ANTRIM	ON	CAN	45.19	76.11	121	S	2.32	1988	87.2	
7430850.0	1974	ANTRIM	ON	CAN	45.19	76.11	121	S	2.17	1988	93.0	
7430870.0	1974	ANTRIM	ON	CAN	45.19	76.11	121	S	2.85	1988	39.8	
7430940.0	1974	BANCROFT	ON	CAN	45.06	77.58	381	S	2.29	1988	87.2	
7430950.0	1974	BANCROFT	ON	CAN	45.06	77.58	381	S	1.99	1988	80.2	
7430970.0	1974	BANCROFT	ON	CAN	45.06	77.58	381	S	1.90	1988	94.8	
7430980.0	1974	BANCROFT	ON	CAN	45.06	78.02	396	S	1.96	1989	76.5	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7431000.0	1974	BANCROFT	ON	CAN	45.06	78.02	396	S	1.87	1988	96.8	
7431010.0	1974	BANCROFT	ON	CAN	45.06	78.02	396	S	1.72	1990	70.2	
7431020.0	1974	BANCROFT	ON	CAN	45.06	78.02	396	S	2.57	1988	93.2	
7431030.0	1974	BANCROFT	ON	CAN	45.06	78.02	396	S	3.37	1990	97.0	
7431040.0	1974	APSLEY	ON	CAN	44.55	78.04	365	S	2.80	1988	97.2	
7431050.0	1974	APSLEY	ON	CAN	44.55	78.04	365	S	2.47	1988	94.8	
7431060.0	1974	APSLEY	ON	CAN	44.55	78.04	365	S	2.14	1988	97.5	
7431070.0	1974	APSLEY	ON	CAN	44.55	78.04	365	S	2.32	1990	72.5	
7431080.0	1974	APSLEY	ON	CAN	44.55	78.04	365	S	2.39	1990	17.5	
7431090.0	1974	APSLEY	ON	CAN	44.55	78.04	365	S	2.40	1988	92.8	
7431100.0	1974	APSLEY	ON	CAN	44.55	78.04	365	S	2.57	1990	67.2	
7431110.0	1974	APSLEY	ON	CAN	44.55	78.04	365	S	2.23	1988	43.2	
7431120.0	1974	APSLEY	ON	CAN	44.55	78.04	365	S	2.62	1988	58.8	
7431130.0	1974	APSLEY	ON	CAN	44.55	78.04	365	S	2.60	1988	98.0	
7431150.0	1974	SILVER LAKE	ON	CAN	44.49	76.41	182	S	2.15	1988	92.0	
7431240.0	1974	SILVER LAKE	ON	CAN	44.49	76.41	182	S	2.64	1988	72.7	
7431250.0	1974	SILVER LAKE	ON	CAN	44.49	76.41	182	B(10)	2.20	1985	89.5	
7431260.0	1974	SILVER LAKE	ON	CAN	44.49	76.41	182	S	2.77	1990	97.0	
7431270.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.17	1987	99.5	
7431280.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.82	1989	42.5	
7431300.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.22	1985	95.5	
7431310.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.94	1985	91.0	
7431320.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.21	1988	96.2	
7431330.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.36	1988	98.2	
7431340.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.38	1988	98.0	
7431350.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.63	1985	95.5	
7431360.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	3.08	1988	99.8	
7431370.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.67	1987	98.7	
7431380.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.12	1989	95.8	
7431390.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.09	1987	99.0	
7431400.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.77	1989	88.5	
7431410.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.42	1988	94.2	
7431420.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.06	1988	87.8	
7431430.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.31	1987	98.8	
7431440.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.94	1985	97.0	
7431450.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.41	1987	88.8	
7431460.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.47	1990	76.5	
7431470.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.97	1988	95.4	
7431480.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.58	1990	98.2	
7431490.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.53	1985	99.5	
7431510.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.98	1988	29.0	
7431520.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.25	1985	96.0	
7431530.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.22	1988	93.5	
7431540.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.76	1985	96.5	
7431550.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.22	1988	96.5	
7431560.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	3.44	1988	98.3	
7431570.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.67	1990	20.5	
7431580.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.22	1985	93.0	
7431590.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.95	1988	44.7	
7431600.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.32	1988	99.2	
7431610.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.18	1987	97.5	
7431620.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.20	1985	87.9	
7431630.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.02	1987	99.0	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7431640.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.32	1985	98.0	
7431650.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.85	1988	89.0	
7431660.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.15	1987	99.0	
7431670.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.19	1987	90.5	
7431680.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.93	1985	92.0	
7431690.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.32	1988	85.5	
7431700.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.90	1985	92.5	
7431710.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	1.98	1987	98.8	
7431720.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.21	1985	93.5	
7431730.0	1974	WHITNEY	ON	CAN	45.32	78.16	396	S	2.31	1987	98.5	
7431860.0	1974	BEACHBURG	ON	CAN	45.44	76.51	152	S	2.32	1985	97.0	
7431910.0	1974	P.N.F.I.	ON	CAN	45.59	77.27	182	S	3.96	1988	71.0	
7431930.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	2.13	1985	91.4	
7431950.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	1.98	1988	53.0	
7431960.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	2.34	1988	67.8	
7431970.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	1.89	1988	57.2	
7431980.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	2.29	1988	89.2	
7431990.0	1974	P.N.F.I.	ON	CAN	45.58	77.25	160	S	2.59	1985	95.5	
7434280.0	1974	SWASTIKA	ON	CAN	48.01	80.20	300	S	2.10	1988	26.7	
7434290.0	1974	GROVELTON	ON	CAN	44.53	75.34		N/A	2.44	1990	64.8	
7434320.0	1974	SERVOS TOWNSHIP	ON	CAN	46.14	80.43	213	N/A	1.82	1987	60.5	
7434420.0	1974	CLUTE TOWNSHIP	ON	CAN	49.10	81.14	289	N/A	2.26	1988	61.8	
7434480.0	1974	CLUTE TOWNSHIP	ON	CAN	49.10	81.14	289	N/A	3.08	1987	75.0	
7434950.0	1974	C.F.B. - BURNT BRIDGE	ON	CAN	46.00	77.20	182	S	2.17	1988	16.8	
7435490.0	1974	WHITE RIVER	ON	CAN	48.33	85.12	450	B	2.85	1991	38.5	
7435550.0	1974	MCKELLAR	ON	CAN	45.35	79.52	275	S	1.90	1988	58.5	
7435570.0	1974	MCKELLAR	ON	CAN	45.35	79.52	275	S	2.43	1988	65.5	
7435630.0	1974	DORSET	ON	CAN	45.16	78.58	335	S	2.62	1988	8.2	
7435690.0	1974	DORSET	ON	CAN	45.16	78.58	335	S	2.27	1988	46.8	
7435700.0	1974	DORSET	ON	CAN	45.16	78.58	335	S	1.85	1988	11.2	
7435750.0	1974	MATTAWAN TOWNSHIP	ON	CAN	46.23	78.54	305	S	2.79	1988	10.2	
7435840.0	1974	ENGLEHART	ON	CAN	47.52	79.55	215	S	2.59	1984	33.5	
7435850.0	1974	ENGLEHART	ON	CAN	47.52	79.55	215	S	2.11	1988	36.3	
7435870.0	1974	ENGLEHART	ON	CAN	47.52	79.55	215	S	1.82	1988	33.8	
7435890.0	1974	ENGLEHART	ON	CAN	47.52	79.55	215	S	1.97	1988	21.2	
7435900.0	1974	ENGLEHART	ON	CAN	47.52	79.55	215	S	2.29	1988	56.0	
7435910.0	1974	ENGLEHART	ON	CAN	47.52	79.55	215	S	2.51	1989	21.8	
7435920.0	1974	DENTON TOWNSHIP	ON	CAN	48.19	81.40	335	B	1.85	1987	67.2	
7436010.0	1974	SOUTH RIVER	ON	CAN	45.54	79.23	365	S	2.53	1988	71.0	
7436060.0	1974	SOUTH RIVER	ON	CAN	45.54	79.23	365	S	2.50	1987	87.5	
7436070.0	1974	SOUTH RIVER	ON	CAN	45.54	79.23	365	S	2.32	1989	2.0	
7436100.0	1974	SOUTH RIVER	ON	CAN	45.54	79.23	365	S	2.23	1988	6.2	
7436210.0	1974	SHANNONVILLE	ON	CAN	44.14	77.15	90	N/A	1.73	1988	31.1	
7436260.0	1974	POLAND	ON	CAN	45.03	76.35	245	S	2.73	1988	27.0	
7436280.0	1974	POLAND	ON	CAN	45.03	76.35	245	S	2.22	1988	42.5	
7436290.0	1974	POLAND	ON	CAN	45.03	76.35	245	S	2.24	1988	27.2	
7436300.0	1974	POLAND	ON	CAN	45.03	76.35	245	S	1.88	1988	81.2	
7436330.0	1974	MARLBOROUGH TOWNSHIP	ON	CAN	45.02	75.50	90	S	2.92	1988	19.5	
7436340.0	1974	MARLBOROUGH TOWNSHIP	ON	CAN	45.02	75.50	90	S	1.83	1988	13.2	
7436380.0	1974	MARLBOROUGH TOWNSHIP	ON	CAN	45.02	75.50	90	S	2.69	1988	10.8	
7436390.0	1974	HAVELOCK	ON	CAN	44.26	77.50	180	N/A	2.67	1988	19.0	
7436630.0	1974	SWASTIKA	ON	CAN	48.02	80.22	300	S	2.07	1988	15.8	
7466950.0	1974	FOOTNER LAKE	AB	CAN	57.55	115.30	460	B	2.26	1988	83.8	

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7466960.0	1974	SLAVE LAKE FOREST	AB	CAN	56.38	114.35	730	B	2.05	1987	35.5	
7466970.0	1974	GRANDE PRAIRIE	AB	CAN	55.35	118.18	640	N/A	2.22	1983	88.0	
7477170.0	1974	CANYON LAKE	BC	CAN	53.01	123.12	1280	B	1.81	1988	5.5	
7477180.0	1974	STRATHNAVER	BC	CAN	53.18	122.12	1158	B	2.04	1988	5.0	
7477200.0	1974	WILLIAMSON CREEK	BC	CAN	49.17	118.53	671	B	2.39	1988	32.0	
7477220.0	1974	GREYBACK MOUNTAIN	BC	CAN	49.36	119.17	1585	B	1.94	1988	28.8	
7531520.0	1975	MANITOUWADGE	ON	CAN	48.43	85.52	335	S	3.37	1988	99.8	
7531530.0	1975	MANITOUWADGE	ON	CAN	48.43	85.52	335	S	2.46	1988	86.8	
7531570.0	1975	MANITOUWADGE	ON	CAN	48.43	85.52	335	S	2.66	1985	93.0	
7531620.0	1975	MANITOUWADGE	ON	CAN	49.17	85.58	305	S	2.12	1988	72.2	
7531630.0	1975	MANITOUWADGE	ON	CAN	49.17	85.58	305	S	2.03	1988	94.0	
7531680.0	1975	MANITOUWADGE	ON	CAN	49.17	85.58	305	S	1.93	1988	78.8	
7531700.0	1975	MANITOUWADGE	ON	CAN	49.17	85.58	305	S	2.82	1989	60.2	
7531730.0	1975	MANITOUWADGE	ON	CAN	49.17	85.54	260	S	2.11	1988	92.2	
7531760.0	1975	MANITOUWADGE	ON	CAN	49.17	85.54	260	S	3.26	1988	89.2	
7531800.0	1975	MANITOUWADGE	ON	CAN	49.17	85.54	260	S	2.17	1989	93.5	
7531810.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	B	1.85	1990	46.0	
7531820.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	S	1.97	1989	94.8	
7531830.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	S	1.61	1989	92.2	
7531840.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	S	2.59	1988	92.2	
7531880.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	S	2.52	1988	88.8	
7531890.0	1975	CARAMAT	ON	CAN	49.36	86.09	305	S	2.06	1988	82.5	
7531970.0	1975	WHITE RIVER	ON	CAN	48.37	85.19	305	S	2.53	1989	37.8	
7532030.0	1975	MOBERT	ON	CAN	48.42	85.35	305	S	2.48	1987	96.2	
7532060.0	1975	MOBERT	ON	CAN	48.42	85.35	305	S	2.19	1988	96.8	
7532090.0	1975	MOBERT	ON	CAN	48.42	85.35	305	S	2.52	1988	97.5	
7532110.0	1975	TERRACE BAY	ON	CAN	48.47	87.07	200	S	2.30	1988	93.8	
7532120.0	1975	TERRACE BAY	ON	CAN	48.47	87.07	200	S	2.33	1988	28.0	
7532150.0	1975	TERRACE BAY	ON	CAN	48.47	87.07	200	S	2.23	1988	76.0	
7532180.0	1975	TERRACE BAY	ON	CAN	48.47	87.07	200	S	1.93	1987	96.0	
7532200.0	1975	TERRACE BAY	ON	CAN	48.47	87.07	200	S	2.09	1988	80.2	
7532290.0	1975	FALSE CREEK	ON	CAN	49.52	86.52	365	S	2.04	1988	97.2	
7532300.0	1975	FALSE CREEK	ON	CAN	49.52	86.52	365	S	2.04	1988	97.0	
7532330.0	1975	GERALDTON	ON	CAN	49.56	87.07	305	S	2.15	1989	89.2	
7532380.0	1975	GERALDTON	ON	CAN	49.56	87.07	305	S	1.86	1988	95.5	
7532400.0	1975	GERALDTON	ON	CAN	49.56	87.07	305	S	2.35	1988	88.0	
7532420.0	1975	BEARDMORE	ON	CAN	49.33	88.00	365	S	2.19	1988	96.5	
7532430.0	1975	BEARDMORE	ON	CAN	49.33	88.00	365	S	2.58	1984	74.5	
7532490.0	1975	BEARDMORE	ON	CAN	49.33	88.00	365	S	1.87	1988	96.5	
7532510.0	1975	WAWEIG LAKE	ON	CAN	50.09	89.07	305	B	1.64	1988	96.8	
7532520.0	1975	WAWEIG LAKE	ON	CAN	50.09	89.07	305	S	1.96	1988	91.2	
7532540.0	1975	WAWEIG LAKE	ON	CAN	50.09	89.07	305	S	1.90	1988	84.8	
7532550.0	1975	WAWEIG LAKE	ON	CAN	50.09	89.07	305	S	2.23	1990	97.8	
7532570.0	1975	WAWEIG LAKE	ON	CAN	50.09	89.07	305	S	1.99	1988	98.0	
7532590.0	1975	WAWEIG LAKE	ON	CAN	50.09	89.07	305	S	1.91	1988	77.2	
7532600.0	1975	WAWEIG LAKE	ON	CAN	50.09	89.07	305	S	2.24	1988	94.5	
7532610.0	1975	KENOGAMI RIVER	ON	CAN	49.55	86.29	305	S	1.95	1988	97.5	
7532630.0	1975	KENOGAMI RIVER	ON	CAN	49.55	86.29	305	S	2.57	1987	99.0	
7532650.0	1975	KENOGAMI RIVER	ON	CAN	49.55	86.29	305	S	1.85	1988	65.8	
7532660.0	1975	KENOGAMI RIVER	ON	CAN	49.55	86.29	305	S	2.18	1988	95.0	
7532670.0	1975	KENOGAMI RIVER	ON	CAN	49.55	86.29	305	S	2.06	1988	83.0	
7532680.0	1975	KENOGAMI RIVER	ON	CAN	49.55	86.29	305	S	2.41	1988	98.0	
7532730.0	1975	PIC RIVER	ON	CAN	48.42	86.15	240	S	2.86	1989	66.0	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt.	YEAR TEST	% GERM	REMARKS
7532780.0	1975	PIC RIVER	ON	CAN	48.42	86.15	240	S	1.88	1987	96.5	
7532820.0	1975	MACKENZIE	ON	CAN	48.33	88.58	275	S	1.84	1989	7.0	
7533160.0	1975	TWIST LAKE	ON	CAN	49.22	89.45	425	S	2.00	1989	3.2	
7533180.0	1975	TWIST LAKE	ON	CAN	49.22	89.45	425	S	2.19	1988	29.3	
7533410.0	1975	O'SULLIVAN LAKE	ON	CAN	50.32	87.01	335	S	1.95	1988	8.2	
7533470.0	1975	LONG LAKE	ON	CAN	49.13	87.04	335	S	2.47	1988	29.5	
7533500.0	1975	LONG LAKE	ON	CAN	49.13	87.04	335	S	2.85	1989	39.2	
7533510.0	1975	LONG LAKE	ON	CAN	49.13	87.04	335	S	2.04	1988	22.5	
7533520.0	1975	LONG LAKE	ON	CAN	49.13	87.04	335	S	2.10	1987	29.8	
7533750.0	1975	ARNOTT TOWNSHIP	ON	CAN	49.37	84.35	275	S	2.82	1987	77.2	
7533850.0	1975	NAKINA	ON	CAN	50.12	86.47	335	S	2.16	1988	7.5	
7533920.0	1975	PARKS LAKE	ON	CAN	49.28	87.34	460	S	2.95	1987	88.6	
7533950.0	1975	PARKS LAKE	ON	CAN	49.28	87.34	460	S	1.79	1988	57.0	
7534070.0	1975	SHABAQUA CORNERS	ON	CAN	48.37	89.54	410	S	2.63	1989	75.2	
7534130.0	1975	ONAMAN RIVER	ON	CAN	50.02	87.39	305	S	2.21	1989	19.5	
7534160.0	1975	ONAMAN RIVER	ON	CAN	50.02	87.39	305	S	1.96	1989	12.5	
7534180.0	1975	ONAMAN RIVER	ON	CAN	50.02	87.39	305	S	1.82	1989	33.0	
7534190.0	1975	PAGWA	ON	CAN	49.46	85.25	245	S	2.52	1989	70.8	
7534210.0	1975	PAGWA	ON	CAN	49.46	85.25	245	S	2.41	1989	63.8	
7534240.0	1975	PAGWA	ON	CAN	49.46	85.25	245	S	2.38	1989	46.2	
7534260.0	1975	PAGWA	ON	CAN	49.46	85.25	245	S	2.27	1989	36.8	
7534280.0	1975	PAGWA	ON	CAN	49.46	85.25	245	S	2.46	1989	26.8	
7534290.0	1975	JELLICOE	ON	CAN	49.42	87.25	365	S	2.39	1989	57.5	
7534310.0	1975	JELLICOE	ON	CAN	49.42	87.25	365	S	1.88	1989	9.8	
7534350.0	1975	JELLICOE	ON	CAN	49.42	87.25	365	S	2.09	1989	28.2	
7534370.0	1975	JELLICOE	ON	CAN	49.42	87.25	365	S	2.26	1987	76.5	
7534450.0	1975	AUDEN	ON	CAN	50.09	87.53	335	S	1.88	1987	45.9	
7534580.0	1975	THUNDER BAY	ON	CAN	48.13	89.24	305	B	2.17	1989	11.8	
7534590.0	1975	THUNDER BAY	ON	CAN	48.58	88.37	305	B	2.00	1987	92.8	
7534620.0	1975	THUNDER BAY	ON	CAN	49.23	89.45	425	B	1.79	1987	96.8	
7534630.0	1975	GRAHAM	ON	CAN	49.15	90.35	490	B	1.69	1987	79.2	
7534640.0	1975	THUNDER BAY	ON	CAN	49.05	89.11	455	B	2.01	1989	50.2	
7561460.0	1975	ATHABASCA FOREST	AB	CAN	57.08	111.38	275	B	1.96	1989	9.8	
7614220.0	1976	PINEVALE	NS	CAN	45.29	61.58	150	N/A	2.31	1989	19.0	
7614240.0	1976	MCGRATH'S MTN.	NS	CAN	45.32	62.21	150	N/A	2.50	1985	47.5	
7630720.0	1976	P.N.F.I.	ON	CAN	46.00	77.26	160	B(2)	2.59	1989	74.5	
7631090.0	1976	ALICE	ON	CAN	45.46	77.17	150	S	2.24	1989	80.0	
7631110.0	1976	ALICE	ON	CAN	45.46	77.17	150	S	2.53	1989	66.0	
7632000.0	1976	LORRAINE TOWNSHIP	ON	CAN	47.15	79.31	240	S	3.35	1989	81.0	
7632200.0	1976	PECK TOWNSHIP	ON	CAN	45.29	78.45	460	S	2.61	1989	87.5	
7632230.0	1976	PECK TOWNSHIP	ON	CAN	45.29	78.45	460	S	2.40	1989	3.0	
7632240.0	1976	PECK TOWNSHIP	ON	CAN	45.29	78.45	460	S	3.35	1989	8.2	
7632400.0	1976	BURK'S FALLS	ON	CAN	45.37	79.25	300	S	2.17	1989	14.2	
7632410.0	1976	BURK'S FALLS	ON	CAN	45.37	79.25	300	S	2.95	1990	88.2	
7632490.0	1976	BURK'S FALLS	ON	CAN	45.37	79.25	300	S	2.17	1989	90.0	
7632510.0	1976	CHISHOLM TOWNSHIP	ON	CAN	46.08	79.16	275	S	3.74	1990	94.5	
7632560.0	1976	CHISHOLM TOWNSHIP	ON	CAN	46.08	79.16	275	S	2.74	1989	88.2	
7632570.0	1976	CHISHOLM TOWNSHIP	ON	CAN	46.08	79.16	275	S	3.17	1985	87.5	
7632590.0	1976	CHISHOLM TOWNSHIP	ON	CAN	46.08	79.16	275	S	3.10	1989	63.5	
7632650.0	1976	MATTAWAN TOWNSHIP	ON	CAN	46.23	78.54	305	S	2.16	1989	4.0	
7632680.0	1976	MATTAWAN TOWNSHIP	ON	CAN	46.23	78.54	305	S	2.18	1990	69.0	
7632690.0	1976	MATTAWAN TOWNSHIP	ON	CAN	46.23	78.54	305	S	2.42	1989	2.8	
7633050.0	1976	BONFIELD TOWNSHIP	ON	CAN	46.14	79.08	245	S	2.53	1989	71.5	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7633070.0	1976	BONFIELD TOWNSHIP	ON	CAN	46.14	79.08	245	S	2.39	1989	89.2	
7633080.0	1976	BONFIELD TOWNSHIP	ON	CAN	46.14	79.08	245	S	1.92	1989	77.5	
7633140.0	1976	BONFIELD TOWNSHIP	ON	CAN	46.14	79.08	245	S	2.79	1989	87.0	
7633160.0	1976	BOWMAN TOWNSHIP	ON	CAN	48.29	80.25	290	S	2.50	1989	33.5	
7633170.0	1976	BOWMAN TOWNSHIP	ON	CAN	48.29	80.25	290	S	2.41	1989	46.8	
7633180.0	1976	BOWMAN TOWNSHIP	ON	CAN	48.29	80.25	290	S	2.50	1989	88.8	
7633210.0	1976	BOWMAN TOWNSHIP	ON	CAN	48.29	80.25	290	S	2.32	1985	83.0	
7633220.0	1976	BOWMAN TOWNSHIP	ON	CAN	48.29	80.25	290	S	2.16	1989	81.0	
7633570.0	1976	SILVER LAKE	ON	CAN	44.49	76.41	180	S	2.71	1989	69.2	
7633590.0	1976	SILVER LAKE	ON	CAN	44.49	76.41	180	S	3.27	1989	88.2	
7633640.0	1976	FORESTERS FALLS	ON	CAN	45.41	76.48	140	S	2.05	1989	22.2	
7633650.0	1976	FORESTERS FALLS	ON	CAN	45.41	76.48	140	S	2.20	1991	98.5	
7633680.0	1976	FORESTERS FALLS	ON	CAN	45.42	76.49	150	S	3.15	1989	80.8	
7634460.0	1976	CHALK RIVER	ON	CAN	46.01	77.26	145	S	1.96	1989	97.2	
7655070.0	1976	SIPANOK CH.	SK	CAN	53.40	102.47	272	B	2.33	1986	46.5	
7655110.0	1976	CHITEK LAKE	SK	CAN	53.46	107.50	567	B	2.15	1986	15.5	
7655120.0	1976	HADGE LAKE	SK	CAN	51.38	101.40	621	B	2.57	1986	21.0	
7655140.0	1976	PIWEI RIVER	SK	CAN	52.30	102.55	509	B	2.61	1989	0.1	
7655160.0	1976	CANDLE LAKE	SK	CAN	53.45	105.12	494	B	2.08	1986	19.5	
7655170.0	1976	DORE LAKE	SK	CAN	54.42	107.16	485	N/A	1.97	1989	0.1	
7665450.0	1976	PEACE RIVER FOREST	AB	CAN	57.18	114.32	549	S	1.97	1985	21.0	
7665460.0	1976	PEACE RIVER FOREST	AB	CAN	57.18	114.32	549	S	1.75	1989	9.5	
7665510.0	1976	PEACE RIVER FOREST	AB	CAN	57.18	114.32	549	S	1.49	1989	19.2	
7665520.0	1976	PEACE RIVER FOREST	AB	CAN	57.18	114.32	549	S	2.14	1990	19.8	
7665540.0	1976	PEACE RIVER FOREST	AB	CAN	57.18	114.32	549	S	2.54	1990	12.5	
7669330.0	1976	PEACE RIVER FOREST	AB	CAN	57.18	114.32	549	B(24)	2.09	1991	48.2	
7730440.0	1977	P.N.F.I.	ON	CAN	45.59	77.25	170	S	2.19	1988	97.0	
7730470.0	1977	P.N.F.I.	ON	CAN	45.58	77.25	160	S	2.65	1988	87.8	
7730480.0	1977	P.N.F.I.	ON	CAN	45.59	77.25	160	S	2.05	1988	98.2	
7730490.0	1977	P.N.F.I.	ON	CAN	45.59	77.25	160	S	2.54	1988	88.3	
7730500.0	1977	P.N.F.I.	ON	CAN	45.59	77.25	170	S	1.75	1988	93.8	
7730510.0	1977	P.N.F.I.	ON	CAN	46.00	77.26	170	B	2.42	1988	89.2	
7730590.0	1977	DAVMONT TOWNSHIP	ON	CAN	46.51	83.58	300	S	2.21	1987	99.5	
7730960.0	1977	PROCTOR TOWNSHIP	ON	CAN	46.20	82.30	250	S	1.71	1988	99.2	
7731060.0	1977	TOWNSHIP 131	ON	CAN	46.28	82.14	365	S	2.02	1988	80.0	
7731100.0	1977	DENISON TOWNSHIP	ON	CAN	46.27	81.22	275	S	2.23	1988	97.2	
7731120.0	1977	DENISON TOWNSHIP	ON	CAN	46.27	81.22	275	S	2.11	1988	42.2	
7731140.0	1977	DENISON TOWNSHIP	ON	CAN	46.27	81.22	275	S	2.07	1988	82.2	
7731150.0	1977	DENISON TOWNSHIP	ON	CAN	46.27	81.22	275	S	1.96	1986	86.0	
7731260.0	1977	NAIRN TOWNSHIP	ON	CAN	46.19	81.39	215	S	2.21	1988	99.2	
7731310.0	1977	NAIRN TOWNSHIP	ON	CAN	46.19	81.39	215	S	2.23	1986	73.0	
7731600.0	1977	DAHL TOWNSHIP	ON	CAN	48.18	85.00	425	S	1.89	1987	40.5	
7731620.0	1977	DAHL TOWNSHIP	ON	CAN	48.18	85.00	425	S	2.59	1988	50.5	
7820730.0	1978	THORNE TOWNSHIP	PQ	CAN	45.48	76.28	210	S	2.23	1989	81.0	
7820740.0	1978	THORNE TOWNSHIP	PQ	CAN	45.48	76.28	210	S	2.33	1989	79.5	
7820750.0	1978	THORNE TOWNSHIP	PQ	CAN	45.48	76.28	210	S	2.87	1988	95.5	
7820760.0	1978	THORNE TOWNSHIP	PQ	CAN	45.48	76.28	210	S	2.36	1988	99.0	
7820890.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	B	2.28	1987	99.0	
7820900.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	2.31	1988	99.8	
7820910.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	2.87	1987	98.0	
7820920.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	2.31	1987	99.2	
7820930.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	2.62	1990	95.5	
7820940.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	2.88	1987	98.8	

SEED LIST

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7820950.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	3.48	1990	95.0	
7820960.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	2.68	1987	100.0	
7820970.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	3.01	1987	99.0	
7820980.0	1978	OTTER LAKE	PQ	CAN	45.51	76.26	200	S	2.86	1988	97.3	
7830810.0	1978	P.N.F.I.	ON	CAN	46.00	77.26	160	S	2.33	1988	96.8	
7830820.0	1978	P.N.F.I.	ON	CAN	46.00	77.26	160	S	2.58	1988	96.2	
7830830.0	1978	P.N.F.I.	ON	CAN	45.57	77.25	160	S	2.60	1986	99.0	
7830840.0	1978	P.N.F.I.	ON	CAN	45.57	77.25	160	S	2.07	1986	96.0	
7831460.0	1978	P.N.F.I.	ON	CAN	45.57	77.24	160	S	2.13	1986	33.0	
7831470.0	1978	P.N.F.I.	ON	CAN	45.57	77.24	160	S	2.33	1990	96.2	
7831570.0	1978	P.N.F.I.	ON	CAN	45.57	77.24	160	S	2.71	1990	88.5	
7831580.0	1978	P.N.F.I.	ON	CAN	45.57	77.25	160	S	2.02	1986	98.0	
7933060.0	1979	SOUTH NATION RIVER	ON	CAN	45.33	75.03	61	S	2.68	1989	33.5	
7933080.0	1979	SOUTH NATION RIVER	ON	CAN	45.33	75.03	61	N/A	2.56	1989	61.8	
7965049.0	1979	DF 110-16-5-79	AB	CAN	58.38	114.57	335	B	2.13	1991	92.5	
7965050.0	1979	DP 85-1-6-79	AB	CAN	56.23	118.05	762	B	2.16	1991	89.0	
8200564.0	1982	CORMACK	NF	CAN	49.20	57.19	90	B	2.88	1985	88.0	
8200570.0	1982	GOOSE BAY	NF	CAN	53.20	60.10	10	B	2.14	1990	91.5	
8200571.0	1982	FRENCHMAN'S POND	NF	CAN	48.53	55.53	180	B	2.85	1985	83.0	
8234400.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	2.13	1987	91.2	
8234410.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	1.89	1987	98.5	
8234420.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	1.99	1990	96.8	
8234440.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	2.79	1990	92.2	
8234450.0	1982	P.N.F.I.	ON	CAN	45.57	77.28	200	S	2.36	1987	97.2	
8234460.0	1982	P.N.F.I.	ON	CAN	45.59	77.28	200	S	2.25	1990	98.8	
8234470.0	1982	P.N.F.I.	ON	CAN	45.59	77.28	200	S	2.18	1987	99.8	
8234480.0	1982	P.N.F.I.	ON	CAN	45.59	77.28	200	S	2.33	1987	98.0	
8234490.0	1982	P.N.F.I.	ON	CAN	45.59	77.28	200	S	2.06	1987	95.8	
8234500.0	1982	P.N.F.I.	ON	CAN	45.59	77.28	200	S	2.30	1990	98.8	
8266126.0	1982	DR 43-10-5-82	AB	CAN	52.43	115.40	1066	B	2.15	1991	98.0	
8280558.0	1982	MENTASTA PASS #1	AK	USA	62.56	143.30	690	S	1.90	1985	57.3	
8280559.0	1982	MENTASTA PASS #3	AK	USA	62.56	143.30	690	S	2.18	1985	69.3	
8280560.0	1982	TETLIN JUNCTION	AK	USA	63.19	142.38	495	S	2.04	1985	93.5	
8280561.0	1982	WILLOW ISLAND	AK	USA	64.41	148.12	125	S	2.06	1985	63.0	
8280562.0	1982	BONANZA CREEK	AK	USA	64.43	148.20	275	S	2.94	1985	81.0	
8280563.0	1982	GERSTLE RIVER	AK	USA	63.50	144.53	390	S	2.68	1985	80.0	
8284650.0	1982	WASHINGTON COUNTY	ME	USA	44.45	67.15		S	3.53	1987	93.0	
8310058.0	1983	SCAL RIVER	PE	CAN				B	2.12	1990	98.2	
8310059.0	1983	FAXLEY RIVER	PE	CAN				B	2.94	1990	90.8	
8400991.0	1984	MICHAELS BROOK	NF	CAN	48.48	56.20	210	B	3.30	1985	96.0	
8411649.0	1984	MIDDLE MUSQUODOBOIT	NS	CAN	45.02	63.09		B	2.45	1986	89.0	
8411650.0	1984	FOREST GLEN	NS	CAN	45.04	65.55		B	2.28	1986	75.0	
8430100.0	1984	MCNAB 10	ON	CAN	45.28	76.27	129	S	2.19	1985	98.5	
8430101.0	1984	MCNAB 10	ON	CAN	45.28	76.27	129	S	1.89	1985	97.5	
8430104.0	1984	MCNAB 10	ON	CAN	45.28	76.27	129	S	1.78	1985	97.5	
8430106.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	2.32	1985	97.0	
8430107.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	2.04	1985	98.5	
8430108.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	1.55	1985	97.5	
8430109.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	1.27	1985	96.5	
8430112.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	1.79	1985	98.0	
8430113.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	1.59	1985	99.0	
8430114.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	1.84	1985	99.0	
8430115.0	1984	JONES 2	ON	CAN	45.31	77.47	381	S	2.07	1985	99.0	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8430116.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	1.85	1985	99.5	
8430117.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	1.65	1985	81.5	
8430118.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	2.06	1985	99.0	
8430119.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	2.29	1990	96.5	
8430120.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	2.13	1985	95.0	
8430121.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	2.25	1990	92.8	
8430122.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	1.46	1985	95.0	
8430123.0	1984	HORTON 2	ON	CAN	45.27	76.42	154	S	1.67	1985	99.5	
8430124.0	1984	STAFFORD 5	ON	CAN	45.45	77.03	137	S	1.77	1985	95.0	
8430126.0	1984	STAFFORD 5	ON	CAN	45.45	77.03	137	S	1.54	1985	98.5	
8430127.0	1984	STAFFORD 5	ON	CAN	45.45	77.03	137	S	1.50	1985	88.5	
8430128.0	1984	STAFFORD 5	ON	CAN	45.45	77.03	137	S	1.61	1985	99.5	
8430129.0	1984	STAFFORD 5	ON	CAN	45.45	77.03	137	S	1.63	1991	87.5	
8430130.0	1984	HORTON 4	ON	CAN	45.27	76.36	145	S	2.05	1985	95.0	
8430132.0	1984	BROMLEY 5	ON	CAN	45.37	76.56	152	S	2.22	1985	91.5	
8430133.0	1984	BROMLEY 5	ON	CAN	45.37	76.56	152	S	2.45	1985	99.0	
8430134.0	1984	BROMLEY 5	ON	CAN	45.37	76.56	152	S	1.44	1985	98.0	
8430135.0	1984	WILBERFORCE 15	ON	CAN	45.33	77.04	152	S	1.99	1985	98.0	
8430136.0	1984	WILBERFORCE 15	ON	CAN	45.33	77.04	152	S	1.57	1991	99.5	
8430140.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	1.57	1985	99.5	
8430141.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	2.35	1985	97.5	
8430142.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	1.69	1985	97.5	
8430144.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	2.52	1991	96.2	
8430145.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	1.89	1991	98.0	
8430146.0	1984	WILBERFORCE 14	ON	CAN	45.33	77.05	168	S	1.29	1985	96.0	
8430147.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	2.09	1985	99.5	
8430152.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	1.42	1985	94.5	
8430153.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	1.45	1985	93.0	
8430154.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	1.85	1985	99.5	
8430155.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	1.51	1985	99.0	
8430156.0	1984	ADMASTON 9	ON	CAN	45.27	76.48	152	S	1.61	1985	99.5	
8430157.0	1984	WILBERFORCE 11	ON	CAN	45.34	77.09	183	S	2.52	1985	97.0	
8430158.0	1984	WILBERFORCE 11	ON	CAN	45.34	77.09	183	S	2.06	1985	92.5	
8430159.0	1984	WILBERFORCE 11	ON	CAN	45.34	77.09	183	S	1.90	1985	97.0	
8430160.0	1984	WILBERFORCE 11	ON	CAN	45.34	77.09	183	S	2.22	1985	98.0	
8430161.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	1.90	1985	98.5	
8430162.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	1.87	1991	80.2	
8430165.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	1.48	1991	95.2	
8430166.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	1.90	1991	94.0	
8430167.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	2.23	1991	96.8	
8430168.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	2.20	1991	99.8	
8430169.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	1.80	1991	97.5	
8430170.0	1984	SOUTH ALGONA 6	ON	CAN	45.31	77.12	244	S	1.90	1991	98.5	
8430171.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.14	229	S	1.30	1991	97.5	
8430172.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.14	229	S	1.68	1991	97.8	
8430173.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.14	229	S	1.65	1991	98.2	
8430174.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.14	229	S	1.73	1991	95.8	
8430175.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.14	229	S	1.55	1991	96.2	
8430176.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.14	229	S	2.03	1991	97.2	
8430177.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.14	229	S	1.55	1991	97.5	
8430179.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.14	229	S	1.65	1991	98.0	
8430180.0	1984	SOUTH ALGONA 7	ON	CAN	45.31	77.14	229	S	1.65	1991	98.2	
8430181.0	1984	ROSS 14	ON	CAN	45.37	76.53	152	S	2.40	1991	97.2	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8430183.0	1984	ROSS 16	ON	CAN	45.37	76.53	152	S	2.13	1991	95.0	
8430184.0	1984	ROSS 16	ON	CAN	45.37	76.53	152	S	1.60	1991	96.8	
8430187.0	1984	ROSS 16	ON	CAN	45.37	76.53	152	S	2.45	1991	99.2	
8430190.0	1984	ROSS 17	ON	CAN	45.37	76.49	183	S	1.53	1991	97.5	
8430191.0	1984	ROSS 17	ON	CAN	45.37	76.49	183	S	1.68	1991	91.0	
8430192.0	1984	ROSS 17	ON	CAN	45.37	76.49	183	S	1.95	1991	98.5	
8430193.0	1984	ROSS 17	ON	CAN	45.37	76.49	183	S	1.90	1991	99.7	
8430196.0	1984	ROSS 17	ON	CAN	45.37	76.49	183	S	1.65	1991	98.5	
8430197.0	1984	ROSS 19	ON	CAN	45.34	76.50	168	S	1.98	1991	99.0	
8430198.0	1984	ROSS 20	ON	CAN	45.36	76.51	152	S	1.80	1991	96.5	
8430199.0	1984	ROSS 20	ON	CAN	45.36	76.51	152	S	1.50	1991	98.2	
8430200.0	1984	ROSS 20	ON	CAN	45.36	76.51	152	S	1.75	1991	97.8	
8430201.0	1984	ROSS 20	ON	CAN	45.36	76.51	152	S	1.40	1985	97.0	
8430202.0	1984	ROSS 20	ON	CAN	45.36	76.51	152	S	1.55	1991	98.5	
8430205.0	1984	ROSS 20	ON	CAN	45.36	76.51	152	S	1.40	1991	99.2	
8430215.0	1984	ROSS 7	ON	CAN	45.42	76.45	152	S	1.58	1991	98.7	
8430216.0	1984	ROSS 11	ON	CAN	45.42	76.47	128	S	1.78	1991	98.2	
8430218.0	1984	ROSS 11	ON	CAN	45.42	76.47	128	S	1.75	1991	99.0	
8430220.0	1984	ROSS 11	ON	CAN	45.42	76.47	128	S	1.85	1991	98.2	
8430221.0	1984	ROSS 11	ON	CAN	45.42	76.47	128	S	1.73	1991	97.5	
8430224.0	1984	ROSS 11	ON	CAN	45.42	76.47	128	S	2.25	1991	98.0	
8430225.0	1984	ROSS 13	ON	CAN	45.41	76.51	137	S	1.55	1991	94.2	
8430226.0	1984	ROSS 13	ON	CAN	45.41	76.51	137	S	1.93	1991	98.2	
8430229.0	1984	ROSS 13	ON	CAN	45.41	76.51	137	S	1.70	1991	98.2	
8430230.0	1984	ALICE 1	ON	CAN	45.48	77.15	168	S	1.93	1991	94.8	
8430231.0	1984	ALICE 1	ON	CAN	45.48	77.15	168	S	1.55	1985	97.5	
8430232.0	1984	ALICE 1	ON	CAN	45.48	77.15	168	S	1.70	1991	96.5	
8430233.0	1984	ALICE 1	ON	CAN	45.48	77.15	168	S	2.20	1991	99.0	
8430234.0	1984	ALICE 1	ON	CAN	45.48	77.15	168	S	1.53	1991	94.5	
8430235.0	1984	ALICE 1	ON	CAN	45.48	77.15	168	S	1.88	1991	98.5	
8430236.0	1984	ALICE 1	ON	CAN	45.48	77.15	168	S	1.75	1991	97.8	
8430237.0	1984	ALICE 1	ON	CAN	45.48	77.15	168	S	1.55	1991	99.2	
8430238.0	1984	ALICE 1	ON	CAN	45.48	77.15	168	S	2.48	1991	98.5	
8430239.0	1984	ALICE 1	ON	CAN	45.48	77.15	168	S	2.89	1991	82.5	
8430246.0	1984	HORTON 5	ON	CAN	45.27	76.37	137	S	1.93	1991	88.0	
8430249.0	1984	MCNAB 7	ON	CAN	45.28	76.30	114	S	1.95	1991	97.5	
8430250.0	1984	MCNAB 7	ON	CAN	45.28	76.30	114	S	2.00	1985	99.0	
8430251.0	1984	MCNAB 7	ON	CAN	45.28	76.30	114	S	1.55	1991	92.2	
8430252.0	1984	MCNAB 7	ON	CAN	45.28	76.30	114	S	1.93	1991	99.2	
8430253.0	1984	MCNAB 7	ON	CAN	45.28	76.30	114	S	1.90	1991	98.2	
8430255.0	1984	MCNAB 7	ON	CAN	45.28	76.30	114	S	1.80	1991	98.0	
8430257.0	1984	MCNAB 7	ON	CAN	45.28	76.30	114	S	1.73	1991	73.0	
8430258.0	1984	MCNAB 7	ON	CAN	45.28	76.30	114	S	1.65	1991	97.2	
8430261.0	1984	BROMLEY 3	ON	CAN	45.39	77.03	152	S	1.93	1991	98.5	
8430269.0	1984	STAFFORD 4	ON	CAN	45.43	77.05	145	S	1.58	1985	98.0	
8430270.0	1984	STAFFORD 4	ON	CAN	45.43	77.05	145	S	1.83	1991	97.0	
8430271.0	1984	STAFFORD 4	ON	CAN	45.43	77.05	145	S	1.85	1991	98.0	
8430273.0	1984	STAFFORD 4	ON	CAN	45.43	77.05	145	S	1.80	1991	98.5	
8430274.0	1984	STAFFORD 4	ON	CAN	45.43	77.05	145	S	1.70	1991	95.8	
8430275.0	1984	STAFFORD 4	ON	CAN	45.43	77.05	145	S	1.63	1991	99.8	
8430277.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	2.70	1991	95.5	
8430278.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	1.80	1991	99.0	
8430279.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	1.80	1991	97.8	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8430280.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	2.60	1991	99.0	
8430281.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	1.38	1991	98.0	
8430282.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	1.70	1991	99.8	
8430283.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	1.65	1991	98.2	
8430284.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	1.55	1991	96.8	RSB-LAVEREAU
8430285.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	1.68	1991	97.0	
8430286.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	1.45	1991	97.8	
8430287.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	2.33	1991	98.5	
8430288.0	1984	PEMBROKE 2	ON	CAN	45.49	77.04	114	S	1.43	1991	96.0	
8430289.0	1984	PEMBROKE 3	ON	CAN	45.48	77.03	114	S	2.00	1991	96.0	
8430291.0	1984	PEMBROKE 3	ON	CAN	45.48	77.03	114	S	1.83	1985	98.5	
8430292.0	1984	PEMBROKE 3	ON	CAN	45.48	77.03	114	S	1.30	1991	99.0	
8430303.0	1984	PEMBROKE 4	ON	CAN	45.47	77.04	137	S	1.80	1991	98.5	
8430304.0	1984	PEMBROKE 4	ON	CAN	45.47	77.04	137	S	2.28	1991	76.0	
8430307.0	1984	WESTMEATH 4	ON	CAN	45.53	76.54	122	S	1.55	1991	97.8	
8430308.0	1984	WESTMEATH 4	ON	CAN	45.53	76.54	122	S	2.13	1991	95.5	
8430309.0	1984	WESTMEATH 4	ON	CAN	45.53	76.54	122	S	1.65	1991	90.2	
8430310.0	1984	WESTMEATH 4	ON	CAN	45.53	76.54	122	S	2.18	1991	97.5	
8430312.0	1984	WESTMEATH 4	ON	CAN	45.53	76.54	122	S	1.58	1991	99.2	
8430313.0	1984	WESTMEATH 4	ON	CAN	45.53	76.54	122	S	2.30	1991	96.8	
8430314.0	1984	WESTMEATH 4	ON	CAN	45.53	76.54	122	S	1.65	1991	99.8	
8430316.0	1984	WESTMEATH 4	ON	CAN	45.53	76.54	122	S	1.87	1991	97.8	
8430317.0	1984	WESTMEATH 4	ON	CAN	45.53	76.54	122	S	1.83	1991	98.8	
8430318.0	1984	WESTMEATH 9	ON	CAN	45.51	76.47	122	S	1.65	1991	97.5	
8430319.0	1984	WESTMEATH 9	ON	CAN	45.51	76.47	122	S	2.10	1991	99.0	
8430321.0	1984	WESTMEATH 9	ON	CAN	45.51	76.47	122	S	1.80	1991	97.0	
8430322.0	1984	WESTMEATH 9	ON	CAN	45.51	76.47	122	S	1.63	1991	99.5	
8430323.0	1984	WESTMEATH 9	ON	CAN	45.51	76.47	122	S	1.63	1991	95.5	
8430325.0	1984	WESTMEATH 9	ON	CAN	45.51	76.47	122	S	1.80	1991	94.2	
8430326.0	1984	WESTMEATH 9	ON	CAN	45.51	76.47	122	S	1.95	1991	98.8	
8430327.0	1984	WESTMEATH 9	ON	CAN	45.51	76.47	122	S	1.95	1991	98.5	
8430328.0	1984	WESTMEATH 10	ON	CAN	45.52	76.47	107	S	1.33	1991	96.5	
8430330.0	1984	WESTMEATH 10	ON	CAN	45.52	76.47	107	S	1.80	1985	97.0	
8430331.0	1984	WESTMEATH 10	ON	CAN	45.52	76.47	107	S	2.08	1985	99.0	
8430332.0	1984	WESTMEATH 10	ON	CAN	45.52	76.47	107	S	2.03	1985	100.0	
8430334.0	1984	WESTMEATH 10	ON	CAN	45.52	76.47	107	S	1.50	1985	99.0	
8430335.0	1984	WESTMEATH 10	ON	CAN	45.52	76.47	107	S	1.75	1985	99.5	
8430337.0	1984	WESTMEATH 10	ON	CAN	45.52	76.47	107	S	1.83	1991	98.8	
8430339.0	1984	WESTMEATH 10	ON	CAN	45.52	76.47	107	S	2.38	1985	96.5	
8430340.0	1984	WESTMEATH 10	ON	CAN	45.52	76.47	107	S	2.43	1991	97.8	
8430341.0	1984	WESTMEATH 10	ON	CAN	45.52	76.47	107	S	1.78	1985	98.0	
8430342.0	1984	WESTMEATH 12	ON	CAN	45.50	76.50	122	S	2.05	1985	99.0	
8430347.0	1984	WESTMEATH 12	ON	CAN	45.50	76.50	122	S	2.03	1985	86.5	
8430349.0	1984	WESTMEATH 13	ON	CAN	45.50	76.53	122	S	1.62	1985	100.0	
8430350.0	1984	WESTMEATH 13	ON	CAN	45.50	76.53	122	S	2.05	1985	98.0	
8430351.0	1984	WESTMEATH 13	ON	CAN	45.50	76.53	122	S	1.45	1985	98.5	
8430353.0	1984	WESTMEATH 13	ON	CAN	45.50	76.53	122	S	1.65	1991	99.0	
8430354.0	1984	WESTMEATH 13	ON	CAN	45.50	76.53	122	S	1.40	1991	97.8	
8430358.0	1984	WESTMEATH 13	ON	CAN	45.50	76.53	122	S	2.10	1985	99.0	
8430359.0	1984	WESTMEATH 13	ON	CAN	45.50	76.53	122	S	1.85	1985	99.0	
8430369.0	1984	WESTMEATH 14	ON	CAN	45.46	76.53	137	S	1.65	1991	99.0	
8430371.0	1984	WESTMEATH 14	ON	CAN	45.46	76.53	137	S	2.15	1991	97.5	
8430373.0	1984	WESTMEATH 20	ON	CAN	45.44	76.59	137	S	1.63	1985	98.5	

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SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8430376.0	1984	WESTMEATH 20	ON	CAN	45.44	76.59	137	S	1.83	1991	98.5	
8430377.0	1984	WESTMEATH 20	ON	CAN	45.44	76.59	137	S	1.55	1991	99.0	
8430379.0	1984	WESTMEATH 20	ON	CAN	45.44	76.59	137	S	2.94	1991	96.5	
8430383.0	1984	WESTMEATH 21	ON	CAN	45.44	77.00	168	S	1.85	1991	97.0	
8430385.0	1984	WESTMEATH 21	ON	CAN	45.44	77.00	168	S	1.95	1985	97.5	
8430388.0	1984	WESTMEATH 21	ON	CAN	45.44	77.00	168	S	1.53	1991	100.0	
8431427.0	1984	P.N.F.I.	ON	CAN	46.00	77.26	150	S	1.61	1985	82.0	
8431428.0	1984	P.N.F.I.	ON	CAN	46.00	77.26	150	S	1.65	1991	83.0	
8431429.0	1984	P.N.F.I.	ON	CAN	46.00	77.26	150	S	1.24	1991	61.8	
8431431.0	1984	P.N.F.I.	ON	CAN	45.58	77.25	150	S	1.42	1985	90.0	
8431432.0	1984	P.N.F.I.	ON	CAN	45.58	77.25	150	S	1.54	1985	95.5	
8431434.0	1984	P.N.F.I.	ON	CAN	45.58	77.24	160	S	1.65	1985	90.0	
8431435.0	1984	P.N.F.I.	ON	CAN	45.58	77.24	160	S	1.38	1991	85.0	
8431436.0	1984	P.N.F.I.	ON	CAN	45.58	77.25	150	S	1.74	1985	83.1	
8560053.0	1985	ROCKY DISTRICT	AB	CAN	52.14	115.18	1160	B(11)	2.01	1991	96.0	
8560054.0	1985	ROCKY DISTRICT	AB	CAN	52.14	115.18	1160	B(11)	2.37	1991	96.2	
8560232.0	1985	DB 30-5-5-85	AB	CAN	51.33	114.45	1219	B	1.74	1991	92.2	
8600517.0	1986	MICHAEL'S BROOK	NF	CAN	48.46	56.22	225	B	3.01	1987	87.5	
8670155.0	1986	PRINCE GEORGE	BC	CAN	52.50	125.00		B275		1991	97.2	
8800683.0	1988	SHEAVES COVE	NF	CAN	48.01	59.04	45	B	2.85	1989	78.5	
8800684.0	1988	LITTLE RAPIDS	NF	CAN	48.58	57.45	100	B	2.88	1989	84.8	
8800685.0	1988	CORMACK	NF	CAN	49.20	58.20	267	B	2.82	1989	84.0	
8800686.0	1988	BLACK BANK	NF	CAN	48.28	58.25	15	B	3.08	1989	82.2	
8800687.0	1988	ST. ANTHONY	NF	CAN	51.25	55.20	10	B	2.49	1989	80.8	
8800688.0	1988	MICHAEL'S BROOK	NF	CAN	48.46	56.19	300	B	2.65	1989	73.5	
8800689.0	1988	CAPE ST. GEORGE	NF	CAN	48.13	59.14	30	B	2.61	1989	73.0	
8800690.0	1988	MICHAEL'S BROOK	NF	CAN	48.46	56.19	300	B	2.72	1989	83.2	
8800691.0	1988	SOUTHWEST BROOK	NF	CAN	48.29	58.08	75	B	2.89	1989	85.2	
8800692.0	1988	CORMACK	NF	CAN	49.20	58.20	267	B	2.75	1989	76.5	
8800693.0	1988	NORTH HARBOUR	NF	CAN	48.55	57.38	75	B	2.76	1990	84.2	
8800694.0	1988	MILTON	NF	CAN	53.58	48.13	270	B	2.85	1989	72.5	
8800695.0	1988	GOOSE ARM	NF	CAN	49.18	58.35	900	B	2.94	1989	89.0	
8800696.0	1988	PORT SAUNDERS	NF	CAN	50.47	57.40	25	B	2.74	1989	82.5	
8800697.0	1988	SOUTHWEST BROOK	NF	CAN	48.29	58.08	75	B	2.92	1989	88.8	
8800698.0	1988	WOODY POINT	NF	CAN	49.25	57.55	100	B	3.04	1989	87.8	
8800699.0	1988	CORMACK	NF	CAN	49.20	58.20	267	B	2.85	1989	85.0	
8830282.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	2.11	1989	95.5	
8830283.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	1.98	1989	93.5	
8830284.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	2.26	1989	98.2	
8830285.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	2.42	1989	97.8	
8830286.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	2.12	1989	96.0	
8830287.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	1.88	1989	95.8	
8830288.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	2.06	1989	98.5	
8830289.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	3.19	1989	97.5	
8830290.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	2.37	1989	97.8	
8830291.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	2.20	1989	97.8	
8830292.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	2.45	1989	85.0	
8830293.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	1.60	1989	93.5	
8830294.0	1988	P.N.F.I.	ON	CAN	46.00	77.26		S	1.97	1989	72.0	
8830295.0	1988	P.N.F.I.	ON	CAN	46.00	77.25		S	2.13	1989	95.8	
8830296.0	1988	HARFORD	ON	CAN	45.08	78.27		R(5)	2.61	1989	90.2	

SPECIES 32.600 PICEA GLEHNII (Sakhalin spruce)

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8380867.0	1983	HOKKAIDO PREFECTURE		JPN	42.50	142.22E	380	N/A	3.36	1989	90.8	
SPECIES 32.700 PICEA JEZOENSIS [Hondo (Yeddo) spruce]												
7789269.0	1977	HOKKAIDO PREFECTURE		JPN	43.45	143.10E	560	N/A	2.77	1989	68.5	
SPECIES 32.720 PICEA JEZOENSIS var. MICROSPERMA												
8380664.0	1983	YICHUN,HEILONGJIANG PROV		CHN	47.00	129.00E	240	N/A	2.94	1990	40.8	
SPECIES 32.750 PICEA KORAIENSIS												
8380663.0	1983	YICHUN,HEILONGJIANG PROV		CHN	47.00	129.00E	240	N/A	6.21	1990	88.8	
8480977.0	1984	INNER MONGOLIA PROV.		CHN	40.00	110.00E		N/A	5.87	1985	80.0	
8480978.0	1984	HEILONGJIANG PROVINCE		CHN	47.00	127.00E		N/A	6.05	1990	88.5	
SPECIES 32.900 PICEA MARIANA (black spruce)												
6751610.0	1967	PORCUPINE MOUNTAIN	SK	CAN	52.30	101.43	600	B	1.10	1988	88.8	
7237522.0	1972	OMNR SITE REGION 5300	ON	CAN				B	0.95	1990	97.5	
7669448.0	1976		AB	CAN	55.57	115.57	670	B	1.28	1991	65.8	
7904710.0	1979	SWIFT CURRENT	NF	CAN	47.56	54.21	120	B	1.46	1991	94.5	
8002040.0	1980	SKIPPINS RIDGE	NF	CAN	49.45	56.19	150	B	1.54	1990	85.0	
8002050.0	1980	CARMANVILLE	NF	CAN	49.21	54.16	70	B	1.46	1990	94.5	
8002060.0	1980	INDIAN BAY	NF	CAN	49.04	53.54	60	B	1.42	1990	87.0	
8002070.0	1980	MINT BROOK	NF	CAN	48.42	54.37	120	B	1.37	1990	88.0	
8120144.0	1981	CHIBOUGAMAU	PQ	CAN	50.10	73.55	375	B	1.18	1989	87.0	
8120145.0	1981	CHICOUTIMI	PQ	CAN	49.50	71.15	400	B	1.24	1990	96.5	
8130010.0	1981	SITE REGION 34	ON	CAN				N/A	0.93	1991	95.7	
8130040.0	1981	SITE REGION 34	ON	CAN				N/A	0.84	1991	91.2	
8200554.0	1982	GOOSE BAY	NF	CAN	53.17	60.25	10	B	1.32	1989	97.0	
8200565.0	1982	CORMACK	NF	CAN	49.22	57.18	90	B	1.59	1990	97.5	
8200566.0	1982	EASTERN CHAIN LAKES	NF	CAN	49.22	56.24	180	B	1.40	1989	93.0	
8200567.0	1982	HEAD POND	NF	CAN	48.53	55.50	120	B	1.53	1990	93.5	
8200568.0	1982	BAIE VERTE JUNCTION	NF	CAN	49.27	56.25	150	B	1.54	1990	91.8	RSB-CHELIAK
8200569.0	1982	BURNT BERRY	NF	CAN	49.28	56.13	60	B	1.61	1990	97.0	
8233210.0	1982	BOGAMA	ON	CAN	47.30	81.30	381	B	0.97	1991	100.0	NEW CONES
8233230.0	1983	CHAPLEAU-HIGHLANDS	ON	CAN	47.52	83.10	450	B150	0.87	1991	99.7	NEW CONES
8233250.0	1983	CHAPLEAU-LOWLANDS	ON	CAN	47.52	83.10	450	B150	0.87	1991	99.1	NEW CONES
8233270.0	1982	HEARST	ON	CAN	49.30	84.10		B	0.93	1991	99.0	NEW CONES
8310644.0	1983	AUBURN	PE	CAN	46.17	62.55	30	B(20)	1.35	1989	97.2	
8310645.0	1983	CARDROSS	PE	CAN	46.16	62.38	45	B(50)	1.40	1988	97.2	
8310646.0	1983	SUMMERSIDE	PE	CAN	46.32	64.01	30	B(50)	1.60	1988	98.8	
8430076.0	1984	COCHRANE-UPLANDS 1	ON	CAN	49.24	80.18		B*	0.97	1991	97.3	NEW CONES B(60-80)
8430078.0	1984	COCHRANE-UPLANDS 2	ON	CAN	49.16	80.28		B*	0.97	1991	99.5	NEW CONES B(50-60)
8430079.0	1984	COCHRANE-UPLANDS 2	ON	CAN	49.16	80.28		B*	0.93	1991	97.0	OLD CONES B(50-60)
8430080.0	1984	COCHRANE-LOWLANDS 1&2	ON	CAN				B100+	0.87	1991	98.5	NEW CONES
8431459.0	1984	McQUIBBEN TOWNSHIP	ON	CAN	49.29	80.30		B(6)	0.88	1990	100.0	
8431504.0	1984	KAPASKASING DISTRICT	ON	CAN				B	1.21	1991	83.8	FIRST KILN
8431504.1	1984	KAPASKASING DISTRICT	ON	CAN				B	1.18	1991	74.7	SECOND & THIRD KILNS
8470097.0	1984	TSOO CREEK	BC	CAN	59.10	123.20	350	N/A	1.25	1989	97.3	
8550171.0	1985	HIGHWAY 905	SK	CAN	58.00	103.50		N/A	1.01	1990	100.0	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8550173.0	1985	COMPULSION BAY	SK	CAN	57.45	103.16		N/A	0.84	1990	99.0	
8550174.0	1985	HIDDEN BAY	SK	CAN	58.06	103.44		N/A	0.85	1990	98.0	
8550176.0	1985	WOLLASTON LAKE	SK	CAN	58.05	103.10		N/A	1.13	1990	99.0	
8550177.0	1985	URANIUM CITY #1	SK	CAN	59.34	108.38		N/A	1.01	1990	98.2	
8600518.0	1986	CORMACK	NF	CAN	49.20	57.20	120	B	1.59	1987	97.0	
8630180.0	1986	WEAGAMOW INDIAN RESERVE	ON	CAN	53.00	91.20		B	1.00	1990	98.0	RSB-BURGESS
8731127.0	1987	HEARST	ON	CAN	50.08	83.50		B	0.90	1989	98.0	
8800679.0	1988	VALLEY BROOK	NF	CAN	48.52	56.05	300	B	1.49	1989	98.2	
8800680.0	1988	MICHAEL'S BROOK	NF	CAN	48.46	56.20	300	B	1.52	1989	96.2	
8800681.0	1988	ISLAND POND	NF	CAN	49.20	54.15	30	B	1.44	1989	90.0	
8800682.0	1988	GAMBO	NF	CAN	48.50	54.05	30	B	1.38	1989	96.0	
8810398.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.31	1989	97.2	
8810399.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.51	1989	82.5	
8810400.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.19	1989	98.5	
8810401.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.82	1989	96.0	
8810402.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.63	1989	98.8	
8810403.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	2.11	1989	96.5	
8810404.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.48	1989	98.0	
8810405.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.32	1989	97.5	
8810409.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.09	1989	96.0	
8810410.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.54	1989	98.5	
8810411.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	2.13	1989	97.2	
8810412.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.78	1989	99.8	
8810414.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.86	1989	98.2	
8810415.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	2.19	1989	93.5	
8810416.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.86	1989	95.5	
8810419.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.49	1989	97.5	
8810421.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.50	1989	98.0	
8810422.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.47	1989	98.5	
8810423.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.55	1989	97.5	
8810424.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.36	1989	99.8	
8810425.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.53	1989	94.2	
8810427.0	1988	BEAVER BROOK	NB	CAN	46.49	67.16	200	S	1.[illegible]	1989	99.5	
SPECIES 33.200 PICEA OMORIKA (Serbian spruce)												
7485390.0	1974			DEU				B	3.32	1989	42.5	
SPECIES 33.250 PICEA ORIENTALIS (oriental spruce)												
80003.0	1983			TUR				N/A	7.81	1988	68.0	
SPECIES 33.350 PICEA PUNGENS var. GLAUCA (Colorado blue spruce)												
6080054.0		KAIBAB FOREST	AZ	USA	36.37	112.15		N/A	4.05	1990	53.0	
6981820.0	1969			USA				N/A	4.39	1984	88.0	
8285450.0	1982	CLEAR CREEK, SANTA FE	NM	USA	35.30	106.00		N/A	4.46	1990	60.5	
SPECIES 33.400 PICEA RUBENS (red spruce)												
20620.0	1956	WINDSOR MILLS	PQ	CAN	45.35	72.00		N/A	2.98	1988	73.2	
20630.0		FARNHAM	PQ	CAN	45.17	72.58		N/A	4.16	1989	91.8	
80610.0		ROCKLAND	NY	USA	41.57	74.55		N/A	3.40	1989	91.8	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
5210520.0	1952	SCOTS BAY	NS	CAN	45.18	64.24		B	2.79	1989	12.8	
5210530.0	1952	CORBERRIE	NS	CAN	44.14	65.56		B	2.85	1989	13.0	
5310510.0	1953	BOYNE ROAD	NB	CAN	45.33	66.31		B	2.34	1989	94.5	
5380610.0		ANDOPPA FOREST	NH	USA				N/A	3.87	1989	75.2	
5620010.0	1956	LAC-EDOUARD	PQ	CAN	46.45	72.55	300	B	2.46	1987	83.2	
5620520.0	1956	LAC-EDUOARD	PQ	CAN	46.45	72.55	300	B	2.45	1987	78.3	
5620580.0	1956	A.F.E.S.	PQ	CAN	46.57	71.32	215	N/A	2.33	1989	85.0	
5620590.0	1956	LAC-EDOUARD	PQ	CAN	47.39	72.16		N/A	2.48	1989	81.2	
5910500.0	1959	RENOUS-PLASTER ROCK HWY.	NB	CAN	46.45	66.00		B	2.95	1989	30.2	
6110200.0	1961	PROSSER BROOK	NB	CAN	45.45	65.00		B	3.44	1989	45.0	
6210210.0	1962	A.F.E.S.	NB	CAN	46.00	66.25		N/A	2.35	1989	58.0	
6210220.0	1962	A.F.E.S.	NB	CAN	46.02	66.14		N/A	1.72	1989	29.2	
6230240.0	1962	P.N.F.I.	ON	CAN	46.00	77.25	150	N/A	3.58	1989	94.0	
6380260.0	1963	ESSEX & CLINTON COUNTY	NY	USA	44.30	73.30		B	3.87	1989	45.8	
6622370.0	1966	WINDSOR MILLS	PQ	CAN	45.35	72.00		N/A	2.98	1989	77.2	
8284660.0	1982	PITTSTON FARM	ME	USA	45.45	69.45		N/A	3.08	1987	36.7	
8430954.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B(3)	3.31	1990	99.5	
8430955.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B(2)	3.12	1990	98.2	
8430956.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	S	2.87	1990	97.2	
8430957.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	S	3.79	1990	81.0	
8430958.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	S	1.98	1990	99.2	POSSIBLE HYBRID
8430959.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	S	2.15	1990	99.2	POSSIBLE HYBRID
8430960.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	S	2.43	1990	98.0	
8430961.0	1984	BEAR POND ROAD	ON	CAN	45.02	77.19	320	S	2.45	1990	98.5	
8430962.0	1984	ALGONQUIN PARK	ON	CAN	45.17	78.11	490	B(3)	3.02	1990	98.2	
SPECIES	33.450	PICEA SCHRENKIANA (Schrenk's spruce)										
8380669.0	1983	CH'ANG-CHI HUI,XINJIANG		CHN	44.00	89.00E	1000	N/A	7.62	1985	70.3	
8480979.0	1984	XINJIANG UYGUR PROVINCE		CHN	44.00	89.00E	1000	N/A	7.56	1990	56.5	
SPECIES	33.500	PICEA SITCHENSIS (sitka spruce)										
5580002.0		VILSBOEL PLANTAGE		DNK				N/A	2.27	1989	0.1	
5580004.0		TORNBY KLIT		DNK	57.32	9.58E		N/A	2.72	1989	1.5	HYBRID
5970590.0	1959	KALUM LAKE	BC	CAN				B	1.93	1989	13.2	
6680040.0	1966	PACIFIC COUNTY	WA	USA	47.00	124.00		B	2.61	1987	63.0	
6881020.0	1968	FORKS	WA	USA	48.04	124.18	140	S	2.38	1990	4.5	
6881030.0	1968	HOQUIAM	WA	USA	47.05	124.03	6	S	2.28	1990	13.5	
6881040.0	1968	NECANICUM	OR	USA	45.49	123.46	50	S	2.28	1988	4.5	
6881140.0	1968	BROOKINGS	OR	USA	42.15	124.23	90	S	2.62	1989	29.5	
7073080.0	1970	WEDENE RIVER	BC	CAN	54.08	128.37	170	B	2.32	1987	90.8	
7073860.0	1970	USK FERRY	BC	CAN	54.38	128.24	140	B(21)	2.30	1989	91.2	
7073870.0	1970	INVERNESS	BC	CAN	54.12	130.15	30	B(20)	2.38	1989	20.8	
7073880.0	1970	LINK ROAD	BC	CAN	53.30	132.10	90	B	2.40	1987	91.8	
7073890.0	1970	SALMON BAY	BC	CAN	50.23	125.57		B	2.23	1989	7.0	
7073900.0	1970	BIG QUALICUM RIVER	BC	CAN	49.23	124.37		B	2.44	1987	91.8	
7073960.0	1970	KITWANGA	BC	CAN	55.10	127.52	670	B(16)	1.88	1989	50.8	
7073970.0	1970	NOEICK,CHUCKWALLA RIVERS	BC	CAN	51.56	126.50	198	B(17)	2.18	1989	5.2	
7073990.0	1970	DERRICK LAKE	BC	CAN	55.41	128.41	240	B(20)	1.65	1989	77.0	
7074000.0	1970	CRANBERRY RIVER	BC	CAN	55.28	128.14	520	B(16)	1.65	1989	74.5	
7074010.0	1970	FULMAR CREEK	BC	CAN	55.09	128.58	400	B(16)	2.11	1989	76.2	
7074020.0	1970	CEDARVALE	BC	CAN	55.01	128.19	240	B(16)	2.11	1989	89.5	

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SEEDBANK NUMBER	YEAR COLL.	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7074030.0	1970	PACIFIC	BC	CAN	54.46	128.15	110	B(25)	2.07	1989	77.0	
7083840.0	1970	DUCK CREEK	AK	USA	58.22	134.35	30	B(20)	2.55	1989	21.8	
7083850.0	1970	WARD LAKE	AK	USA	55.25	131.42	15	B	2.49	1989	4.5	
7272010.0	1972	QUEEN CHARLOTTE ISLAND	BC	CAN	54.04	131.50	76	B	2.88	1990	50.8	
7272250.0	1972	SOOKE #2 VANCOUVER IS.	BC	CAN	48.22	123.44	10	B	2.08	1990	96.5	
7287290.0	1972	VALDEZ	AK	USA	61.07	146.16	90	B(5)	1.58	1989	1.8	
7575380.0	1975	PARKSVILLE	BC	CAN	49.10	124.30	75	B	2.57	1987	57.5	
8370632.0	1983	KUNDIS CREEK	BC	CAN	53.42	132.09	10	B(3)	2.29	1988	94.2	
SPECIES	33.700	PICEA WILSONII										
8380674.0	1983	A-PA-TIBETAN, SICHUAN P.		CHN	32.00	102.00E	3000	N/A	4.25	1985	66.2	
SPECIES	34.100	PINUS ALBICAULIS [whitebark (scrub) pine]										
8761131.0				CAN				N/A	94.22			
8861177.0			AB	CAN				N/A	83.38			
SPECIES	34.200	PINUS BANKSIANA (Jack pine)										
5130010.0	1951	BARRY'S BAY	ON	CAN	45.29	77.41		B	3.70	1987	23.5	
5830260.0	1958	LAKE TRAVERSE	ON	CAN	45.57	78.03		N/A	3.90	1987	88.5	
6730950.0	1967	DEEP RIVER	ON	CAN	46.06	77.30		S	3.15	1988	75.0	
6730960.0	1967	DEEP RIVER	ON	CAN	46.06	77.30		S	3.00	1986	91.0	
6730980.0	1967	DEEP RIVER	ON	CAN	46.06	77.30		S	3.63	1989	88.0	
6730990.0	1967	DEEP RIVER	ON	CAN	46.06	77.30		S	2.65	1989	86.5	
6830070.0	1968	SIOUX LOOKOUT	ON	CAN	50.09	91.48	380	B	3.24	1988	78.2	
6830070.1	1968	SIOUX LOOKOUT	ON	CAN	50.09	91.48	380	B	3.29	1989	49.0	
6830080.0	1968	C.F.B. - HIGHVIEW	ON	CAN	46.00	77.18	145	B400	3.14	1990	93.0	
6830080.1	1968	C.F.B. - HIGHVIEW	ON	CAN	46.00	77.18	145	B400	3.10	1989	89.0	
6951610.0	1969	CANDLE LAKE	SK	CAN	53.50	105.00	490	B	3.23	1989	92.8	
6951740.0	1969	EMMA LAKE	SK	CAN	53.55	105.50	490	B	3.13	1989	65.8	
7010500.1	1970	SHINNICKBURN	NB	CAN	46.30	66.00	90	B(2)	3.51	1989	75.0	
7020460.0	1970	CHURCH TOWNSHIP	PQ	CAN	46.16	76.13	240	S	3.60	1990	90.5	
7020470.0	1970	RIVIERE MANICOUAGAN	PQ	CAN	50.10	68.35	335	B(20)	3.18	1990	93.5	
7030320.0	1970	EVELYN TOWNSHIP	ON	CAN	48.40	81.00	300	B(33)	3.53	1985	84.0	
7030330.0	1970	GREENLAW TOWNSHIP	ON	CAN	47.40	82.47	410	B(5)	3.28	1990	65.5	
7030330.1	1970	GREENLAW TOWNSHIP	ON	CAN	47.40	82.47	410	B(5)	3.13	1989	39.5	
7030340.0	1970	BAIN TOWNSHIP	ON	CAN	49.52	86.24	320	B	3.36	1988	87.8	
7030350.0	1970	NIPIGON	ON	CAN	49.11	88.12	275	S	3.30	1988	89.5	
7030370.0	1970	CLEARWATER BAY	ON	CAN	49.44	94.49	400	B(3)	2.94	1988	92.8	
7030430.0	1970	QUETICO PROV. PARK	ON	CAN	48.39	92.14	400	B(20)	3.25	1988	99.0	
7030450.0	1970	GIBI LAKE	ON	CAN	49.38	94.12	370	B(5)	3.03	1988	94.8	
7040360.0	1970	LAKE ST. MARTIN	MB	CAN	51.30	98.20	335	B(7)	3.25	1990	88.0	
7050390.0	1970	LAC LA RONGE	SK	CAN	55.12	105.18	370	B(5)	2.94	1988	72.5	
7050400.0	1970	BIG RIVER	SK	CAN	53.44	107.12	490	B(7)	4.02	1988	81.8	
7257430.0	1972	MONTREAL LAKE	SK	CAN	54.16	105.37	560	N/A	3.38	1991	63.3	
7257450.0	1972	CANDLE LAKE	SK	CAN	53.45	105.15		N/A	3.04	1989	13.5	
7257460.0	1972	CHRISTOPHER LAKE	SK	CAN	53.34	105.40		N/A	3.78	1990	61.5	
7331300.0	1973	NICKLE TOWNSHIP	ON	CAN	49.10	85.40		N/A	3.30	1987	87.8	
7331420.0	1973	WELLS TOWNSHIP	ON	CAN	46.26	83.23	220	B(25)	3.09	1988	98.5	
7333410.0	1973	AUDREY LAKE	ON	CAN	49.45	94.10	460	B120	3.02	1988	92.8	
7333710.0	1973	C.F.B. - ORANGE ROAD	ON	CAN	45.57	77.22	150	S	3.08	1988	81.5	

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7350080.0	1973	LA LOCHE	SK	CAN	56.22	109.12	520	B(6)	3.39	1988	16.5	
7350090.0	1973	MEADOW LAKE	SK	CAN	53.54	108.27	725	B	3.30	1988	88.0	
7350100.0	1973	MONTREAL LAKE	SK	CAN	54.16	105.37	560	B(7)	3.36	1988	74.2	
7350110.0	1973	SOUTHEND	SK	CAN	56.16	103.20	440	B(8)	2.85	1990	80.2	
7350120.0	1973	PRINCE ALBERT	SK	CAN	53.14	105.47	560	B(8)	3.88	1988	82.2	
7350130.0	1973	HUDSON BAY	SK	CAN	52.50	102.21	410	B(5)	3.95	1988	78.5	
7350140.0	1973	LA RONGE	SK	CAN	55.27	104.52	415	B(7)	2.94	1989	21.5	
7435330.0	1974	SWASTIKA	ON	CAN	47.30	80.00		N/A	3.19	1989	96.8	
7530200.0	1975	C.F.B. - PETAWAWA R.	ON	CAN	45.55	77.29	160	N/A	3.50	1990	84.5	
7827550.0	1978	POINTE A DAVID	PQ	CAN	46.45	75.55	244	N/A	4.70	1988	98.8	
7836330.0	1978	HAWK LAKE	ON	CAN	49.45	93.57	460	B	3.08	1990	93.5	
7836340.0	1978	WELLS TOWNSHIP	ON	CAN	46.25	83.21	230	B	3.29	1990	92.0	
7836350.0	1978	GARIBALDI TOWNSHIP	ON	CAN	47.14	81.14	380	B	3.17	1990	94.8	
8021950.0	1980	BRIAND	PQ	CAN	46.54	76.02		S	3.90	1988	90.5	
8121300.0	1981	JOLIETTE COUNTY	PQ	CAN	47.25	75.20	365	S	3.56	1984	87.5	
8330002.0	1983	P.N.F.I.	ON	CAN	46.00	77.25	150	N/A	4.42	1987	97.5	
8431460.0	1984	LONG LAKE	ON	CAN	44.47	79.28	229	B(5)	2.85	1990	98.0	
8800172.0	1988	LABRADOR	NF	CAN				B	2.63	1988	63.0	
SPECIES 34.250 PINUS BUNGEANA (lacebark pine)												
8380677.0	1983	CHIN-NAN, SHANXI PROV.		CHN	35.00	111.00E	1000	N/A	112.38	1986	1.3	
SPECIES 34.280 PINUS CARIBAEA var. CARIBAEA												
7886740.0	1978	MARBAJITAS PINAR DEL RIO		CUB	22.00	84.00		B	13.84	1989	30.5	
8180140.0	1981	BAHIA HONDA		CUB	20.49	82.58	75	B(25)	15.14	1989	77.0	
SPECIES 34.290 PINUS CARIBAEA var. HONDURENSIS												
8380660.0	1983	POPTUN		GTM	16.21	89.25	500	B150	17.91	1989	74.0	
SPECIES 34.300 PINUS CEMBRA (Swiss stone pine)												
8680297.0	1986	CARPATHIAN MOUNTAINS		SUN				B	261.90	1987	59.0	
8680298.0	1986	CARPATHIAN MOUNTAINS		SUN				B	305.82	1987	54.0	
8680299.0	1986	CARPATHIAN MOUNTAINS		SUN				B	305.10	1987	43.0	
8680300.0	1986	CARPATHIAN MOUNTAINS		SUN				B	315.46	1988	54.0	
SPECIES 34.310 PINUS CEMBRA var. SIBIRICA												
8181080.0	1981	NOVOSIBIRSKAYA OBLAST		SUN	55.00	80.00E		B	243.00	1984	21.3	
8181090.0	1981	TOMSKAYA OBLAST		SUN	58.00	80.00E		B	238.00	1984	13.5	
SPECIES 34.410 PINUS CONTORTA var. CONTORTA (shore pine)												
7073220.0	1970	RICHMOND	BC	CAN	49.10	123.10	35	B	2.67	1988	85.5	
7272070.0	1972	TERRACE	BC	CAN	54.52	128.47	150	B	2.33	1989	65.5	NO KILN
7272070.1	1972	TERRACE	BC	CAN	54.52	128.47	150	B	2.35	1989	56.2	KILN
SPECIES 34.430 PINUS CONTORTA var. LATIFOLIA (lodgepole pine)												
5850250.0	1958	CYPRESS HILLS PROV. PARK	SK	CAN	49.40	109.30	1220	B	5.89	1987	7.2	

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5960610.0	1959	ALLISON CREEK	BC	CAN	49.30	120.30		N/A	3.56	1987	57.0	
6881120.0	1968	PRAIRIE CITY	OR	USA	44.32	118.34	1500	S	4.50	1987	91.7	
7060490.1	1970	KANANASKIS RES. FOREST	AB	CAN	51.00	115.00	1370	B	4.37	1990	89.5	SECOND KILN
7160350.0	1971	SWAN HILLS	AB	CAN	54.34	115.29	950	R(S)	3.43	1989	85.2	
7160360.0	1971	SWAN HILLS	AB	CAN	54.34	115.29	950	N/A	3.32	1989	58.0	FIRST KILN
7160370.0	1971	SWAN HILLS	AB	CAN	54.34	115.29	950	N/A	2.80	1989	92.5	FIRST KILN
7160380.0	1971	SWAN HILLS	AB	CAN	54.34	115.29	950	N/A	3.67	1989	93.8	FIRST KILN
7160390.0	1971	SWAN HILLS	AB	CAN	54.34	115.29	950	N/A	4.89	1989	89.8	FIRST KILN
7172000.0	1971	FORT ST. JAMES	BC	CAN	54.30	124.15	840	B	2.79	1990	51.0	
7172010.0	1971	JACOBIE CREEK	BC	CAN	52.32	121.53	990	B	3.16	1990	56.8	
7172020.0	1971	LAC LE JEUNE	BC	CAN	50.30	120.36	1300	B	3.87	1990	39.8	
7172030.0	1971	HAZELTON	BC	CAN	55.15	127.30	530	B	2.74	1990	46.2	
7172130.0	1971	CLEARWATER	BC	CAN	51.40	119.56	530	B	3.48	1990	58.0	
7172140.0	1971	HUDSON'S HOPE	BC	CAN	56.03	121.52	530	B	3.12	1990	79.8	
7272040.0	1972	HAZELTON	BC	CAN	55.10	127.47	370	B	2.70	1990	70.0	FIRST KILN
7272050.0	1972	MANSON CREEK	BC	CAN	55.40	124.30	730	B	2.58	1990	67.0	FIRST KILN
7272060.0	1972	JACOBIE CREEK	BC	CAN	52.32	121.50	910	B	3.05	1990	61.8	FIRST KILN
7272280.0	1972	MILE 101 ALASKA HIGHWAY	BC	CAN	56.45	121.44	880	B	3.27	1986	86.0	
7272290.0	1972	ATLIN	BC	CAN	59.35	133.40	750	B	2.72	1990	68.5	
7272300.0	1972	TAGISH LAKE	YT	CAN	60.14	134.24	780	B	2.76	1990	54.8	
7477350.0	1974	UPPER LIARD RIVER	YT	CAN	60.10	128.50	700	B	2.72	1989	61.8	
7575390.0	1975	PINETAN	BC	CAN	50.43	119.57	1100	B	3.72	1985	57.0	
7575410.0	1975	WATSON LAKE	YT	CAN	60.10	128.50	725	B	2.90	1985	83.0	
7665180.0	1976	GRANDE PRAIRIE FOREST	AB	CAN	55.10	118.48		B	3.46	1987	87.5	FIRST KILN
7678430.0	1976	FRASER LAKE	BC	CAN	54.12	124.26	850	B	2.90	1990	79.0	
7678440.0	1976	BABINE LAKE	BC	CAN	54.24	125.30	1000	B	2.60	1990	65.0	
7678450.0	1976	BABINE	BC	CAN	55.00	126.35	820	B	3.20	1990	96.0	
7678460.0	1976	WONOWON	BC	CAN	56.43	121.50	950	B	3.30	1990	86.0	
7678470.0	1976	BALDY HUGHES	BC	CAN	53.40	122.57	820	B	2.90	1990	89.0	
7678480.0	1976	PEMENT LAKE	BC	CAN	50.40	119.29	1100	B	3.00	1990	67.0	
7679160.0	1976		BC	CAN				N/A	2.84	1990	86.0	
7769720.0	1977	NORDEGG	AB	CAN	52.30	116.15	1375	B	4.00	1990	52.5	
7779430.0	1977	NORTH RANCHERIA	YT	CAN	60.06	129.35	1008	B	2.70	1990	82.5	
7779470.0	1977	TAGISH LAKE	YT	CAN	60.14	134.24	777	B	2.70	1990	67.0	
7779480.0	1977	CHETWYND	BC	CAN	55.37	121.40	850	B	3.20	1990	75.0	
7779490.0	1977	WONOWON	BC	CAN	56.45	121.44	884	R	3.30	1990	88.5	
7779510.0	1977	TELKWA	BC	CAN	54.37	127.03	780	B	3.10	1990	84.0	
7779520.0	1977	WONOWON	BC	CAN	56.43	121.50	950	B	3.30	1990	85.0	
7779530.0	1977	CANOL ROAD	YT	CAN	61.08	132.50	900	B	3.30	1990	73.0	
7779540.0	1977	TESLIN	YT	CAN	60.18	132.45	700	B	3.10	1990	88.0	
7779550.0	1977	CASSIAR	BC	CAN	59.17	129.50	780	B	3.40	1990	91.0	
7779570.0	1977	WILLISTON	BC	CAN	56.00	122.10	815	B	3.10	1990	93.0	
7779580.0	1977	SQUANGA	YT	CAN	60.30	133.45	853	B	3.00	1990	55.0	
7779590.0	1977	QUIET LAKE	YT	CAN	60.55	133.00	900	B	3.09	1990	88.0	
7779600.0	1977	CARMACKS	YT	CAN	62.08	135.15	620	B	2.88	1990	70.0	
7779610.0	1977	SIMPSON LAKE	YT	CAN	60.45	129 10	760	B	3.07	1990	78.0	
7779620.0	1977	TAGISH	YT	CAN	60.20	134.30	850	B	3.04	1990	73.0	
7779640.0	1977	NATION RIVER	BC	CAN	55.15	124.10	950	B	2.74	1990	79.5	
7779650.0	1977	FORT ST. JAMES	BC	CAN	54.30	124.10	900	B	2.79	1989	71.2	
7779670.0	1977	UPPER LIARD RIVER	YT	CAN	60.10	128.50	700	B	2.90	1990	80.0	
7779680.0	1977	TESLIN	YT	CAN	60.15	132.50	750	B	2.88	1990	67.8	
7779700.0	1977	BABINE LAKE	BC	CAN	54.24	125.30	1000	R	2.52	1987	83.2	
7779710.0	1977	MOBERLY LAKE	BC	CAN	55.40	121.25	750	B	3.20	1987	85.2	

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7779740.0	1977	PINK MOUNTAIN	BC	CAN	51.00	122.40	1050	B	3.26	1989	87.0	
7877130.0	1978	LONG LAKE	YT	CAN	60.49	135.06	701	B	2.89	1989	86.0	
7877150.0	1978	SQUANGA	YT	CAN	60.30	133.45	853	B	2.76	1989	65.2	
7877160.0	1978	TAGISH	YT	CAN	60.20	134.30	850	B	2.96	1989	71.0	
7877170.0	1978	CARMACKS	YT	CAN	62.08	135.15	620	B	3.00	1990	85.5	
7877190.0	1978	TESLIN	YT	CAN	60.18	132.45	700	B	2.84	1989	70.0	
7974030.0	1979	ANNIE LAKE	YT	CAN	60.25	134.50	800	B	3.00	1990	76.0	
8960096.0			AB	CAN				B	3.75	1991	91.0	
SPECIES	**34.440**	**PINUS CONTORTA var. MURRAYANA**										
6881130.0	1968	CAMP NELSON	CA	USA	36.06	118.32	2160	S	5.88	1989	28.2	
SPECIES	**34.490**	**PINUS COULTERI [big-cone (Coulter) pine]**										
7887530.0	1987	CALIF. SEED ZONE 997	CA	USA	33.50	116.50	1667	N/A	278.53	1990	85.5	
SPECIES	**34.495**	**PINUS DENSATA**										
8380667.0	1983			CHN				N/A	12.30	1989	58.5	
SPECIES	**34.500**	**PINUS DENSIFLORA (Japanese red pine)**										
7383200.0	1973	IWATE PREFECTURE		JPN	39.40	141.10E	205	B	10.63	1984	80.0	PL
7383761.0	1973	IWATE PREFECTURE		JPN	39.03	141.05E	120	N/A	11.61	1989	91.8	PL
7487519.0	1974	IWATE PREFECTURE		JPN	39.15	141.23E	250	N/A	6.59	1989	48.2	PL
8380868.0	1983	FUKUSHIMA PREFECTURE		JPN	37.34	140.50E	390	N/A	6.45	1986	88.5	
SPECIES	**34.553**	**PINUS ELLIOTTII (slash pine)**										
7581510.0	1975		GA	USA				N/A	36.21	1984	68.0	
SPECIES	**34.650**	**PINUS HALEPENSIS (Aleppo pine)**										
7880670.0	1978	PISHIN (QUETTA)		PAK	30.15	67.00E	1500	N/A	62.10	1987	67.5	
SPECIES	**34.653**	**PINUS HELDREICHII var. LEUCODERMIS**										
1180013.0		CRNA GORA, NIKSIC		YUG				N/A	22.96	1986	59.5	
SPECIES	**34.659**	**PINUS KESIYA**										
7980470.0	1979	MAE SAIR		THA	19.00	98.45E	1050	N/A	20.22	1988	93.0	
8781130.0	1987	DOI INTHANON						N/A	23.61	1991	96.5	
SPECIES	**34.700**	**PINUS KORAIENSIS (Korean pine)**										
8480972.0	1984	JILIN PROVINCE		CHN	43.00	126.00E		N/A	449.00	1985	22.7	
SPECIES	**34.800**	**PINUS LAMBERTIANA (sugar pine)**										
7383320.0	1973		OR	USA				B	228.10			

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SPECIES 34.820 PINUS MERKUSII												
8380658.0	1983	NANG KHU		THA	14.43	103.50E	180	B(2)	20.01	1989	20.0	
8680783.0	1986	TUNG PHAYA						N/A	39.09	1991	68.5	
SPECIES 34.900 PINUS MONTICOLA (western white (silver) pine)												
7071810.0	1970	ADAMS LAKE	BC	CAN	51.25	119.30	550	B	11.46	1983	52.0	
7477320.0	1974	ADAMS LAKE	BC	CAN	51.25	119.30	700	B	15.80	1987	20.2	
7679320.0	1976	WEST ADAMS	BC	CAN	50.53	119.46	686	N/A	16.40	1984	56.0	
8370630.0	1983	ADAMS LAKE	BC	CAN	51.30	119.33	1050	N/A	14.10	1984	22.0	
8370631.0	1983	ADAMS LAKE	BC	CAN	51.22	119.30	425	N/A	15.15	1984	12.5	
8570234.0	1985	BLACK JACK RIDGE	BC	CAN			685	B(75)	13.90	1986	12.0	
8570235.0	1985	HALFMOON BAY ROAD	BC	CAN	49.36	123.54	490	B(7)	13.09	1986	16.0	
8570236.0	1985	UPPER CANOE	BC	CAN	52.45	119.15	1050	B#	13.77	1986	4.0	B(205)
8871102.0	1988	BLACKCOMB	BC	CAN	50.08	122.55	650	B#	17.78			B(100+)
8871103.0	1988	SQUAMISH	BC	CAN	49.42	123.02	470	S	16.35			
SPECIES 35.130 PINUS MUGO VAR PUMILIO												
1180014.0		RENAN PLATEAU, S. TIROL		ITA				N/A	5.04	1986	55.5	
SPECIES 35.150 PINUS MUGO VAR. ROSTRATA												
7581511.0	1975	CONFLUENT VALLEY		FRA	42.32	2.08E	1800	N/A	7.88	1986	78.0	
SPECIES 35.170 PINUS MURICATA												
1180009.0				NZL				N/A	13.42	1986	53.5	
SPECIES 35.200 PINUS NIGRA (Austrian pine)												
7485410.0	1974			AUT				B	18.96	1988	82.5	
8330037.0	1983	TORONTO	ON	CAN	43.43	79.23	150	S	30.66	1988	47.5	PL
8781133.0	1987	BAIA DE ARIES		ROM	46.30	23.25	505	B	22.31			
8881178.0	1988	ALBA IULIA DISTRICT		ROM	46.05	23.30	350	B	20.05			
8881179.0	1988	SCROVISTEA DISTRICT		ROM	44.45	24.10	95	B	28.40			
8881181.0	1988	RIMNICU VILCEA DISTRICT		ROM	45.00	23.40	350	B	18.49			
8980934.0	1989	DOBRA SEED ORCHARD		ROM	45.40	23.15	170	B	26.40			
8980935.0	1989	DOBRA SEED ORCHARD		ROM	45.40	23.15	170	B	26.19			
SPECIES 35.235 PINUS NIGRA var. KOEKELARE												
8181290.0	1981	HALLE #504H SEED ORCHARD		BEL	50.44	4.14E		N/A	18.37	1989	63.0	PL
SPECIES 35.240 PINUS OOCARPA												
7789310.0	1977	TEMASCALTEPEC-TEJUPILCO		MEX	18.57	100.05	1675	B	23.06	1989	74.0	
7789320.0	1977	LA LOBERA		MEX	17.03	99.58	1250	B	20.79	1989	92.0	
8280546.0	1982	QUINOPE		HND	13.58	87.01	1400	B200	16.91	1984	94.0	
SPECIES 35.700 PINUS PUMILA												

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1180008.0				SU				N/A	80.92	1986	28.0	
8181070.0	1981	MAGADANSKAYA OBLAST		SUN	65.00	160.00E		B	83.00	1984	9.5	
SPECIES 35.900 PINUS RESINOSA (red (Norway) pine)												
5330590.0	1953	STURGEON FALLS	ON	CAN	46.22	79.55		N/A	8.08	1988	19.0	
5730330.0	1957	ZONE 6	ON	CAN				N/A	7.49	1988	87.7	
5780350.0	1957	DELTA COUNTY	MI	USA	46.00	87.00		N/A	8.28	1988	82.5	
6030280.0	1960	P.N.F.I.	ON	CAN	45.57	77.30	200	N/A	8.40	1988	40.2	
6632340.0	1966	P.N.F.I.	ON	CAN	45.56	77.33	150	B	8.30	1988	36.2	
6632360.0	1966	P.N.F.I.	ON	CAN	45.58	77.24	160	B	9.35	1988	48.2	
6730420.0	1967	P.N.F.I.	ON	CAN	45.58	77.30	190	B	9.58	1988	88.5	
6830060.0	1968	SIOUX LOOKOUT	ON	CAN	50.04	91.57	370	B	7.17	1988	80.8	
6931510.0	1969	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	7.80	1988	97.2	FIRST KILN
6931510.2	1969	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.60	1990	90.5	THIRD KILN
6931520.0	1969	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.60	1990	86.0	FIRST KILN
6931530.0	1969	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.70	1990	98.5	FIRST KILN
6931540.0	1969	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	9.45	1990	91.0	FIRST KILN
6931540.2	1969	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.10	1990	93.8	THIRD KILN
6931560.0	1969	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	9.00	1990	90.0	FIRST KILN
6931560.2	1969	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	7.84	1988	29.0	THIRD KILN
6931570.0	1969	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.46	1990	87.5	FIRST KILN
6931580.1	1969	P.N.F.I.	ON	CAN	45.58	77.34	210	S	9.06	1988	56.2	SECOND KILN
6931590.0	1969	P.N.F.I.	ON	CAN	45.58	77.34	210	S	8.12	1988	89.8	FIRST KILN
7010280.0	1970	BEAVER LAKE	NS	CAN	44.14	65.20	140	B(10)	7.58	1988	97.8	
7010310.0	1970	TRACY	NB	CAN	45.43	66.42	60	B(5)	8.37	1990	97.8	FIRST KILN
7023040.0	1970	NORWAY-BAY	PQ	CAN	45.32	76.26	80	B	8.46	1988	97.5	
7030170.0	1970	C.F.B. - TUCKER CREEK	ON	CAN	45.59	77.22	140	S	10.77	1988	29.0	FIRST KILN
7030180.0	1970	C.F.B. - HIGHVIEW	ON	CAN	46.00	77.19	150	S	8.56	1988	96.2	FIRST KILN
7030190.0	1970	C.F.B. - TUCKER CREEK	ON	CAN	45.59	77.22	140	S	9.37	1990	99.0	FIRST KILN
7030200.0	1970	C.F.B. - THOMPSON L.	ON	CAN	46.01	77.21	180	B(5)	9.62	1988	98.5	FIRST KILN
7030210.0	1970	DRIFTWOOD PROV. PARK	ON	CAN	46.11	77.51	150	S	8.73	1988	99.0	FIRST KILN
7030220.0	1970	DRIFTWOOD PROV. PARK	ON	CAN	46.11	77.51	150	S	7.37	1988	99.0	FIRST KILN
7030240.0	1970	DRIFTWOOD PROV. PARK	ON	CAN	46.11	77.51	150	S	8.80	1990	99.0	FIRST KILN
7030250.0	1970	ELDRIDGE TOWNSHIP	ON	CAN	47.00	79.30	310	B	8.05	1990	98.0	
7030260.0	1970	MACDIARMID	ON	CAN	49.18	88.05	370	B	8.39	1990	96.5	FIRST KILN
7030270.0	1970	AGAWA BAY	ON	CAN	47.20	84.38	210	B(5)	8.38	1988	96.2	
7030290.0	1970	ATIKOKAN	ON	CAN	48.58	91.47	410	B(30)	8.80	1988	93.5	
7030300.0	1970	FRENCH LAKE	ON	CAN	48.41	91.07	440	B(45)	8.73	1988	99.0	
7033920.0	1970	STONECLIFFE	ON	CAN	46.12	77.58	210	N/A	7.61	1990	74.8	
7232200.0	1972	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	S	8.65	1988	98.0	FIRST KILN
7232220.0	1972	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	B(3)	8.87	1991	97.0	FIRST KILN
7232230.1	1972	C.F.B. - HIGHVIEW	ON	CAN	45.58	77.19	120	B(3)	8.99	1988	98.0	SECOND KILN
7807540.0	1978	ROWSELLS BROOK	NF	CAN	49.14	56.22	270	B	6.52	1989	77.2	
8930094.0	1989	CHALK RIVER	ON	CAN	46.01	77.27		B	9.48	1989	85.0	
SPECIES 36.100 PINUS RIGIDA (pitch pine)												
8530122.0	1985	BASS LAKE	ON	CAN	44.35	76.05	152	B(10)	7.08	1990	93.2	GPC-RF
8530123.0	1985	ELGIN	ON	CAN	44.37	76.13	145	B(6)	5.86	1990	63.0	GPC-RF
8530124.0	1985	RED HORSE LAKE	ON	CAN	44.32	76.05	152	B(8)	7.19	1990	47.5	
8620248.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	6.12	1990	42.0	
8620249.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	5.23	1990	48.0	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8620270.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	7.20	1990	98.0	
8620271.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	5.65	1990	91.8	
8620272.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		B(2)	9.09	1990	91.5	
8620273.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	5.35	1990	87.5	
8620274.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	5.24	1990	95.0	
8620275.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	6.48	1990	75.0	
8620276.2	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	4.66	1987	82.2	
8620277.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	6.50	1990	85.0	
8620278.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	6.11	1990	49.8	
8620279.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		B(4)	6.82	1990	86.5	
8620280.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	5.96	1990	87.0	
8620281.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		B(3)	7.27	1990	96.5	
8620282.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	9.08	1990	94.0	
8620283.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	8.27	1990	95.5	
8620284.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	8.02	1990	90.8	
8620285.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	6.53	1987	88.8	
8620286.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	6.11	1987	73.5	
8620287.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	5.43	1987	32.5	
8620288.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	6.16	1987	94.2	
8620289.0	1986	ST. ANTOINE-ABBE	PQ	CAN	45.03	73.53		S	4.57	1990	70.2	
8630122.0	1986	HILL ISLAND	ON	CAN	44.21	75.59	90	SQ	6.70	1990	95.5	
8630156.0	1986	SQUAW ISLAND	ON	CAN	44.19	76.06	76	S	5.63	1990	97.5	
8630157.0	1986	SQUAW ISLAND	ON	CAN	44.19	76.06	76	S	8.39	1990	100.0	NIAGARA PARK-RSB
8630158.0	1986	SQUAW ISLAND	ON	CAN	44.19	76.06	76	S	8.43	1989	95.2	NIAGARA PARK-RSB
8630159.0	1986	SQUAW ISLAND	ON	CAN	44.19	76.06	76	S	6.80	1989	99.5	NIAGARA PARK-RSB
8630160.0	1986	SQUAW ISLAND	ON	CAN	44.19	76.06	76	S	6.41	1989	94.5	NIAGARA PARK-RSB
8630161.0	1986	SQUAW ISLAND	ON	CAN	44.19	76.06	76	S	9.28	1989	98.0	NIAGARA PARK-RSB
8630162.0	1986	SQUAW ISLAND	ON	CAN	44.19	76.06	76	S	8.93	1989	97.0	
8630163.0	1986	SQUAW ISLAND	ON	CAN	44.19	76.06	76	S	11.83	1989	97.5	
8630165.0	1986	SQUAW ISLAND	ON	CAN	44.19	76.06	76	S	9.22	1989	100.0	
8630167.0	1986	SQUAW ISLAND	ON	CAN	44.19	76.06	77	S	8.48	1989	97.5	
8630168.0	1986	SQUAW ISLAND	ON	CAN	44.19	77.06	77	S	7.79	1989	97.0	
8630169.0	1986	CAMELOT ISLAND	ON	CAN	44.18	77.07	78	S	4.23	1986	90.0	NIAGARA PARK-RSB
8630171.0	1986	CAMELOT ISLAND	ON	CAN	44.18	76.07	78	S	7.69	1990	90.5	NIAGARA PARK-RSB
8630172.0	1986	CAMELOT ISLAND	ON	CAN	44.18	76.07	78	S	6.41	1986	96.0	NIAGARA PARK-RSB
8630173.0	1986	CAMELOT ISLAND	ON	CAN	44.18	76.07	76	S	5.28	1990	97.5	NIAGARA PARK-RSB
8630174.0	1986	CAMELOT ISLAND	ON	CAN	44.18	76.06	78	SQ	5.18	1990	90.0	NIAGARA PARK-RSB
8630175.0	1986	HILL ISLAND	ON	CAN	44.21	75.58	95	S	5.12	1989	98.5	NIAGARA PARK-RSB
8630176.0	1986	HILL ISLAND	ON	CAN	44.21	77.58	115	S	7.65	1989	99.8	NIAGARA PARK-RSB
8630177.0	1986	HILL ISLAND	ON	CAN	44.21	75.57	116	S	6.21	1989	79.2	NIAGARA PARK-RSB
8630178.0	1986	HILL ISLAND	ON	CAN	44.21	75.57	116	S	9.76	1989	99.2	NIAGARA PARK-RSB
8630514.0	1986	MALLORYTOWN	ON	CAN	44.27	75.52	91	B	8.37	1987	99.5	
SPECIES 36.150 PINUS ROXBURGHII												
7880660.0	1978	GHORA GALI		PAK	33.55	73.32E	1200	N/A	80.95	1984	95.0	
SPECIES 36.180 PINUS SIBIRICA												
8480970.0	1984	XINJIANG UYGUR PROVINCE		CHN	44.00	89.00E		N/A	231.76	1985	0.1	
8580069.0	1985	MALOY GOLOUSTNOYE		SUN	52.20	105.15E	250	N/A	215.45	1990	23.0	
8780332.0	1987	KEMEROVO DISTRICT		SUN				B	225.41			
8780780.0	1987			SUN				N/A	218.64			

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
SPECIES 36.190 PINUS STROBIFORMIS (southwestern white pine)												
8480008.0	1984	LINCOLN NAT. FOREST	NM	USA	33.00	105.00		N/A	201.18	1989	75.0	
SPECIES 36.200 PINUS STROBUS [eastern white (Weymouth) pine]												
5920072.0	1959	ST CHARLES DE KANDEVILLE	PQ	CAN	46.17	73.25	214	N/A	19.73	1988	28.0	
5930070.0	1959	ZONE 6E	ON	CAN				B	16.83	1984	83.0	
5930071.0	1959	C.F.B.	ON	CAN	45.53	77.33	230	B	15.43	1990	52.2	
6080062.0	1960	HAYWARD	WI	USA	46.00	91.25		N/A	17.85	1988	7.3	
6120023.0	1961	CHICOUTIMI	PQ	CAN	48.26	71.04		N/A	14.93	1990	49.0	
6630240.0	1966	P.N.F.I.	ON	CAN	45.58	77.27	150	S	19.17	1989	10.5	
6630250.0	1966	C.F.B. - PETAWAWA R.	ON	CAN	45.55	77.29	170	S	17.56	1988	54.0	
6630280.0	1966	C.F.B. - PETAWAWA R.	ON	CAN	45.55	77.29	170	S	17.35	1990	90.7	
6630290.0	1966	C.F.B. - PETAWAWA R.	ON	CAN	45.55	77.29	170	N/A	14.95	1988	55.5	
6630330.0	1966	C.F.B. - PETAWAWA R.	ON	CAN	45.55	77.29	170	S	15.88	1988	16.3	
6630430.0	1966	C.F.B. - PETAWAWA R.	ON	CAN	45.56	77.33	150	S	18.16	1991	6.8	
6630440.0	1966	C.F.B. - PETAWAWA R.	ON	CAN	45.56	77.33	150	S	15.05	1987	43.5	
6630480.0	1966	P.N.F.I.	ON	CAN	45.59	77.28	150	B(10)	13.23	1986	13.5	
6632450.0	1966	C.F.B. - MONTGOMERY L.	ON	CAN	45.56	77.33	150	S	12.46	1984	35.0	
6632460.0	1966	P.N.F.I.	ON	CAN	46.00	77.30	200	B	13.71	1990	19.5	
6730090.0	1967	P.N.F.I.	ON	CAN	45.57	77.28	200	S	18.60	1991	0.1	
6730110.0	1967	C.F.B. - PETAWAWA R.	ON	CAN	45.55	77.27	150	S	26.30	1991	47.3	
6730130.0	1967	C.F.B. - PETAWAWA R.	ON	CAN	45.55	77.27	150	S	15.30	1986	28.5	
6730170.0	1967	C.F.B. - PETAWAWA R.	ON	CAN	45.55	77.27	150	S	20.21	1990	31.2	
6731760.0	1967	P.N.F.I.	ON	CAN	46.00	77.27	170	B	22.41	1988	18.0	
7011270.0	1970	CAMBRIDGE TOWNSHIP	NB	CAN	45.50	66.05	60	B(5)	17.44	1988	30.8	
7031230.0	1970	ATIKOKAN	ON	CAN	48.38	92.14	400	B(5)	11.65	1988	17.3	
7031250.0	1970	ELDRIDGE TOWNSHIP	ON	CAN	47.00	79.30	310	B	14.28	1987	16.2	
7031280.0	1970	PARRY SOUND	ON	CAN	45.20	79.58	210	B(3)	17.18	1991	2.0	
7031320.0	1970	P.N.F.I.	ON	CAN	45.55	77.25	170	S	22.67	1989	1.0	
7031350.0	1970	P.N.F.I.	ON	CAN	45.55	77.25	170	N/A	14.77	1988	39.0	
7031370.0	1970	P.N.F.I.	ON	CAN	45.58	77.30	170	N/A	19.57	1988	7.5	
7230010.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	B(2)	19.78	1991	0.5	
7230020.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	21.36	1988	41.8	
7230050.0	1972	P.N.F.I.	ON	CAN	45.59	77.25	170	N/A	17.90	1987	24.0	
7230060.0	1972	P.N.F.I.	ON	CAN	45.58	77.27	180	S	22.91	1988	4.0	
7230070.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	14.35	1987	72.8	
7230080.0	1972	P.N.F.I.	ON	CAN	45.59	77.25	170	N/A	18.57	1987	39.2	
7230090.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	19.14	1988	57.8	
7230110.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	B(3)	20.48	1989	34.5	
7230120.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	N/A	19.94	1988	44.5	
7230130.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	B(3)	20.67	1987	51.5	
7230140.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	B(2)	21.25	1987	71.8	
7230170.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	19.69	1991	5.5	
7230190.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	24.44	1989	51.0	
7230200.0	1972	P.N.F.I.	ON	CAN	45.55	77.30	170	B(4)	23.09	1989	1.5	
7230220.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	19.46	1989	48.5	
7230240.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	N/A	20.55	1989	18.0	
7230280.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	22.00	1987	36.0	
7230290.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	22.45	1991	51.5	
7230310.0	1972	P.N.F.I.	ON	CAN	45.55	77.25	170	S	27.50	1991	14.0	
7230320.0	1972	P.N.F.I.	ON	CAN	45.55	77.25	170	S	20.01	1989	6.0	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
7230340.0	1972	P.N.F.I.	ON	CAN	45.55	77.25	170	S	16.80	1987	47.2	
7230370.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	B(3)	22.10	1991	2.5	
7230380.0	1972	P.N.F.I.	ON	CAN	45.58	77.25	168	S	16.36	1991	23.5	
7230390.0	1972	P.N.F.I.	ON	CAN	45.58	77.25	170	S	15.40	1991	72.0	
7230400.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	26.20	1987	17.8	
7230410.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	18.10	1987	38.5	
7230420.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	21.20	1987	33.0	
7230430.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	17.10	1987	59.2	
7230440.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	22.20	1991	20.0	
7230450.0	1972	C.F.B. - BIGGAR L.	ON	CAN	45.53	77.30	200	S	14.27	1989	48.8	
7331450.0	1973	P.N.F.I.	ON	CAN	45.59	77.26	180	N/A	16.20	1987	69.5	
7331460.0	1973	P.N.F.I.	ON	CAN	46.00	77.25	160	N/A	19.50	1991	48.5	
7331480.0	1973	P.N.F.I.	ON	CAN	45.59	77.25	160	N/A	19.92	1991	62.0	
7331490.0	1973	P.N.F.I.	ON	CAN	45.59	77.25	160	S	10.80	1991	1.0	
7331500.0	1973	P.N.F.I.	ON	CAN	45.58	77.21	160	S	15.60	1991	4.2	
7331510.0	1973	P.N.F.I.	ON	CAN	45.59	77.26	180	S	25.20	1991	60.2	
7331520.0	1973	P.N.F.I.	ON	CAN	45.59	77.26	180	B(2)	19.85	1989	11.0	
7735580.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	12.85	1991	84.0	
7735590.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	13.28	1991	38.0	
7735600.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	15.22	1991	75.0	
7735610.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	11.34	1991	9.0	
7735650.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	18.45	1991	37.0	
7735660.0	1977	BORDEN TOWNSHIP	ON	CAN	47.53	83.10	400	S	14.88	1988	85.5	
7735670.0	1977	PAUDASH TOWNSHIP	ON	CAN	47.16	81.45	400	B(10)	13.37	1988	63.8	
7735680.0	1977	WALDIE TOWNSHIP	ON	CAN	46.08	80.50	210	S	17.22	1991	4.5	
7735700.0	1977	WALDIE TOWNSHIP	ON	CAN	46.08	80.50	210	S	12.84	1991	0.1	
7735720.0	1977	WALDIE TOWNSHIP	ON	CAN	46.08	80.50	210	S		1986	93.0	
7735740.0	1977	WALDIE TOWNSHIP	ON	CAN	46.08	80.50	210	S	16.81	1986	88.5	
7931210.0	1979	DEEP RIVER	ON	CAN	46.06	77.29	115	B(5)	19.71	1987	94.2	
7931230.0	1979	C.F.B. - TUCKER CREEK	ON	CAN	45.59	77.23	150	S	20.93	1991	96.0	
7931240.0	1979	C.F.B. - TUCKER CREEK	ON	CAN	45.59	77.23	150	S	18.37	1987	99.0	
7931260.0	1979	C.F.B. - TUCKER CREEK	ON	CAN	45.59	77.23	150	S	19.20	1987	97.8	
7931270.0	1979	C.F.B. - TUCKER CREEK	ON	CAN	45.59	77.23	150	S	17.76	1987	98.7	
7931280.0	1979	C.F.B. - TUCKER CREEK	ON	CAN	45.59	77.23	150	S	16.04	1991	46.0	
7931300.0	1979	C.F.B. - TUCKER CREEK	ON	CAN	45.59	77.23	150	S	19.90	1987	99.0	
8100146.0	1981	GREAT RATTLING BROOK	NF	CAN	48.58	55.32	30	B	20.68	1991	81.5	
8233380.0	1982	P.N.F.I.	ON	CAN	45.58	77.29	200	B(4)	11.60	1991	68.5	
8530079.0	1985	ALGONQUIN PARK	ON	CAN	45.53	77.42	200	B(8)	11.99	1991	93.2	
8530080.0	1985	ALGONQUIN PARK	ON	CAN	45.53	77.42	200	B(8)	11.46	1985	98.3	
8530189.0	1985	BEAR POND ROAD	ON	CAN	45.02	77.19	320	B(10)	19.95	1986	95.5	
8620151.0	1986	CANTON LOUISE	PQ	CAN				B	16.75	1991	71.0	
8620152.0	1986	SEIGNEURIE-PETITE NATION	PQ	CAN				B				
8620153.0	1986	CANTON AUBRY	PQ	CAN				B				
8620154.0	1986	SEIGNEURIE AUBIN L'ISLE	PQ	CAN				B				
8930575.0	1989	P.N.F.I.	ON	CAN	45.58	77.24		S	22.14	1991	90.8	
8930576.0	1989	P.N.F.I.	ON	CAN	45.59	77.26		S	15.01	1990	98.0	
8930577.0	1989	P.N.F.I.	ON	CAN	45.59	77.26		S	20.84	1990	97.0	
8930578.0	1989	P.N.F.I.	ON	CAN	45.58	77.25		S	19.67	1990	94.2	
8930579.0	1989	P.N.F.I.	ON	CAN	45.58	77.28		S	17.57	1991	90.2	
8930580.0	1989	P.N.F.I.	ON	CAN	46.01	77.25		S	22.63	1990	83.8	
8930581.0	1989	CHALK RIVER	ON	CAN	46.00	77.26		S	20.61	1990	97.5	
8930582.0	1989	CHALK RIVER	ON	CAN	46.00	77.26		S	17.45	1990	93.8	
8930583.0	1989	CHALK RIVER	ON	CAN	46.01	77.27		S	18.85	1990	82.8	RSVD-MILLER

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8930584.0	1989	CHALK RIVER	ON	CAN	46.01	77.28		S	16.08	1991	95.3	
8930585.0	1989	MACKEY	ON	CAN	46.10	77.48		S	15.82	1990	90.0	
SPECIES	36.220	PINUS STROBUS var. CHIAPENSIS										
7687790.0	1976	TLAPACOYAN VER.		MEX	19.55	97.15	775	N/A	18.00	1983	14.0	
SPECIES	36.300	PINUS SYLVESTRIS [Scotch (Scots) Pine]										
7081650.0	1970	ORLOVSKAYA OBLAST		SUN	53.00	35.00E		B	6.82	1988	58.2	
7081660.0	1970	KIEVSKAYA OBLAST		SUN	50.00	30.00E		B	6.80	1988	29.2	
7082000.0	1970	ELVA,ESTONIYA S.S.R.		SUN	58.20	26.00E		B	5.64	1988	65.5	
7181900.0	1971	VORU, ESTONIYA S.S.R.		SUN	57.50	27.00E		B	5.98	1988	54.0	
7181910.0	1971	VALGAMAA,ESTONIYA S.S.R.		SUN	57.45	26.00E		B	6.30	1988	70.5	
7185540.0	1971	BRUKSFRO, GUNNARSKOG		SWE	59.48	12.34E	300	B	4.50	1987	78.8	
7185560.0	1971	BRUKSFRO, GUNNARSKOG		SWE	59.48	12.34E	300	B	6.30	1991	69.0	
7333490.0	1973	THESSALON	ON	CAN	46.15	83.24		S	9.66	1988	94.2	PL
7383420.0	1973	MURAT		FRA	45.06	2.15E		S	7.24	1989	82.5	
7383460.0	1973	BALNAGOWAN WOOD		SCO	57.16	3.09	240	S	9.50	1991	42.2	
7383470.0	1973	BALNAGOWAN WOOD		SCO	57.16	3.09	240	S	7.26	1988	37.8	
7383480.0	1973	BALNAGOWAN WOOD		SCO	57.16	3.09	240	S	6.37	1988	97.2	
7383550.0	1973	MORAYSHIRE		SCO	57.33	3.29		S	8.23	1991	25.0	
7383560.0	1973	MORAYSHIRE		SCO	57.33	3.29		S	8.20	1988	67.5	
7383570.0	1973	MORAYSHIRE		SCO	57.33	3.29		S	12.10	1991	25.0	
7486670.0	1974	VILNIAUS, LITVA S.S.R.		SUN	54.38	25.28E	100	B	6.60	1988	29.8	
7486680.0	1974	JONAVOS, LITVA S.S.R.		SUN	55.15	24.20E	110	B	6.37	1991	55.2	
7486690.0	1974	KAUNO, LITVA S.S.R.		SUN	54.45	24.05E	100	N/A	5.83	1988	82.0	PL
7486700.0	1974	KAUNO, LITVA S.S.R.		SUN	54.45	24.05E	100	N/A	5.87	1988	35.8	PL
7486730.0	1974	KAUNO, LITVA S.S.R.		SUN	54.45	24.05E	100	N/A	7.26	1988	60.0	PL
7486740.0	1974	KAUNO, LITVA S.S.R.		SUN	54.45	24.05E	100	N/A	6.15	1988	96.0	PL
7486760.0	1974	KAUNO, LITVA S.S.R.		SUN	54.45	24.05E	100	N/A	6.23	1988	47.0	PL
7486780.0	1974	KAUNO, LITVA S.S.R.		SUN	54.45	24.05E	100	N/A	6.59	1988	19.5	PL
7486790.0	1974	KAUNO, LITVA S.S.R.		SUN	54.45	24.05E	100	N/A	5.55	1988	69.0	PL
7486800.0	1974	KAUNO, LITVA S.S.R.		SUN	54.45	24.05E	100	N/A	6.36	1988	22.0	PL
7487360.0	1974			TUR				N/A	8.20	1991	65.5	
7581490.0	1975	TARTU, ESTONIYA S.S.R.		SUN	58.22	26.40E	60	B	5.57	1988	86.0	
8181100.0	1981	NOVOSIBIRSKAYA OBLAST		SUN	55.00	80.00E		R	6.25	1988	77.5	
8181110.0	1981	MARISKAYA OBLAST		SUN	56.00	47.00E		B	6.39	1988	92.5	
8181120.0	1981	MARISKAYA OBLAST		SUN	56.00	47.00E		B	6.93	1988	92.5	
8181130.0	1981	TATARSKAYA, ASSR		SUN	55.00	50.00E		B	6.87	1988	96.2	
8181140.0	1981	TATARSKAYA, ASSR		SUN	55.00	50.00E		R	7.09	1988	87.5	
8181150.0	1981	VORONEZHSKAYA OBLAST		SUN	50.30	40.00E		B	8.17	1988	83.0	
8181160.0	1981	ORLOVSKAYA OBLAST		SUN	52.30	37.00E		B	7.56	1988	77.2	
8181170.0	1981	KIEVSKAYA OBLAST		SUN	50.00	30.00E		B	7.54	1988	82.0	
8181180.0	1981	KRASNOYARSKIY KRAY		SUN	60.00	90.00E		R	5.21	1988	93.2	
8181190.0	1981	KALUZHKAYA OBLAST		SUN	54.00	35.00E		B	7.59	1988	71.3	
8181200.0	1981	SMOLENSKAYA OBLAST		SUN	55.00	32.00E		B	7.20	1988	89.3	
8181280.0	1981	GROENENDAAL #502B SOR		BEL	50.50	4.21E		N/A	8.00	1989	26.8	PL
8380654.0	1983	LUZNA, OLESNO		CSK	50.10	13.70E	390	N/A	6.81	1988	59.8	
8380655.0	1983	LITOMERICE, ROUDNICE		CSK	50.30	14.20E	150	N/A	7.14	1988	62.8	
8380656.0	1983	KURIM TISNOV		CSK	49.30	16.30E	400	N/A	5.51	1988	74.0	
8430095.0	1984	P.N.F.I.	ON	CAN	46.01	77.25	160	S	7.08	1991	97.5	PL
8430096.0	1984	P.N.F.I.	ON	CAN	46.01	77.25	160	S	7.36	1985	97.5	PL

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8480966.0	1984	LOCH MAREE		SCO	57.35	5.10	250	S	7.49	1985	52.0	
8480967.0	1984	LOWER GLEN TILT		SCO	56.40	4.35	150	N/A	7.63	1991	80.0	PI
8780774.0	1987	ROKISKIS, LITVA S.S.R.		SUN	55.48	25.33E	120	B	6.66	1989	8.5	PL
8780775.0	1987	TRAKAI, LITVA S.S.R.		SUN	54.32	24.55E	160	B	6.64	1989	26.0	
8780776.0	1987	KAZLU-RUDA, LITVA S.S.R.		SUN	54.42	23.35E	70	B	6.35	1989	14.8	
8880700.0	1988	HALLESTAD DISTRICT		SWE	58.46	15.35E	85	B*	4.01	1989	93.2	B(200-300) PL
8880701.0	1987	RUMSULLA DISTRICT		SWE	57.41	15.35E	150	B	5.01	1989	91.5	PL
9180001.0	1991	CUGIR SEED ORCHARD		ROM	45.52	23.23E	230	B	7.93			
SPECIES 36.350 PINUS SYLVESTRIS var. MONGOLICA												
7393100.0	1973	HEILONGJIANG PROVINCE		CHN	47.00	127.00E		B	7.50	1991	49.2	
8380670.0	1983	SUNG-HUA-CHIANG		CHN	46.00	127.00E	700	N/A	7.17	1985	79.5	
8480976.0	1984	JILIN PROVINCE		CHN	43.00	126.00E		N/A	6.31	1985	26.6	
8481646.0	1984	BAIYINNA,HEILONGJIANG		CHN	52.21	125.40E		N/A	5.19	1991	77.8	
SPECIES 36.370 PINUS SYLVESTRIS var. RIGENSIS												
80001.0	1983	RIGA, LATVIYA S.S.R.		SUN	56.53	24.08E		N/A	6.23	1991	81.2	
SPECIES 36.400 PINUS TABULAEFORMIS (Chinese pine)												
8380679.0	1983	WEINAN, SHAANXI PROV.		CHN	35.00	109.00E	800	N/A	36.05	1985	32.0	
8480974.0	1984	HUBEI PROVINCE		CHN	39.00	116.00E		N/A	32.92	1985	38.0	
SPECIES 36.600 PINUS THUNBERGII (Japanese black pine)												
7487520.0	1974	AOMORI PREFECTURE		JPN	40.47	140.20E	60	N/A	11.24	1989	68.2	PL
7985039.0	1979	ISHIKAWA PREFECTURE		JPN	36.19	136.49E	5	N/A	17.65	1986	94.5	PL
8380673.0	1983	CH'ANG-WEI,SHANDONG PROV		CHN	36.00	120.00E	100	N/A	10.72	1991	77.3	
SPECIES 36.700 PINUS WALLICHIANA [Himalawan (Bhutan) pine]												
80002.0	1983	HIMALAYA						N/A	42.12	1988	61.0	
8380657.0	1983	HUTU,RARA		NPL	29.32	82.05E	3010	N/A	40.92	1988	53.0	
8380659.0	1983	SAGAIMATHA, JUNBESI FOR.		NPL	27.34	86.34E	2760	N/A	41.96	1988	93.0	
SPECIES 36.950 PLADYCLADUS ORIENTALIS												
8330018.0	1983	FONTHILL	ON	CAN	43.02	79.17	200	B(4)	20.48	1986	53.5	PL
SPECIES 37.200 PLATANUS OCCIDENTALIS [American plane (sycamore)]												
8330642.0	1983	NIAGARA FALLS TOWNSHIP	ON	CAN	43.03	79.08		B(10)	2.86	1986	19.0	PL
SPECIES 38.530 POPULUS DELTOIDES var. OCCIDENTALIS (plains cottonwood)												
6881570.0	1968	BISMARCK	ND	USA	46.48	100.43		N/A	0.96	1985	67.0	
6881640.0	1968	BISMARCK	ND	USA	46.48	100.43		N/A	0.87	1985	34.0	
SPECIES 38.600 POPULUS GRANDIDENTATA (largetooth aspen)												
7830530.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.05	1985	95.5	

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7830540.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.09	1985	100.0	
7830550.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.08	1985	96.5	
7830560.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.08	1985	89.0	
7830570.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.09	1985	96.0	
SPECIES 38.800 POPULUS TREMULOIDES (trembling aspen)												
7830430.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.11	1985	61.0	
7830440.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.12	1985	74.5	
7830450.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.12	1985	73.0	
7830460.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.07	1985	71.5	
7830470.0	1978	P.N.F.I.	ON	CAN	46.01	77.25	150	N/A	0.07	1985	56.0	
8630019.0	1986	THUNDER BAY	ON	CAN	48.28	89.09		S	0.08	1986	36.0	
SPECIES 39.100 PRUNUS AVIUM (mazzard)												
8880706.0	1988	TORPA DISTRICT		SWE	58.00	15.07E	130	B(3)	124.78			
SPECIES 39.600 PRUNUS PENSYLVANICA (pin cherry)												
8430034.0	1984	PETAWAWA	ON	CAN	45.54	77.15	150	S	34.32			
SPECIES 39.800 PRUNUS SEROTINA (black cherry)												
7033240.0	1970	OTTAWA	ON	CAN	45.24	75.34	70	N/A	105.93	1986	11.0	
8330015.0	1983	FONTHILL	ON	CAN	43.01	79.18	190	S	97.65			PL
8430048.0	1984	P.N.F.I.	ON	CAN	45.59	77.25	150	S	117.04	1986	17.0	
SPECIES 40.200 PSEUDOTSUGA MENZIESII (douglas-fir)												
6470290.0	1964	QUESNEL	BC	CAN	53.14	122.30	820	B	9.50	1988	23.2	
6671200.0	1966	ELK VALLEY	BC	CAN	49.45	125.50	910	B	10.24	1989	4.0	
6772350.0	1967	FRANKLIN RIVER	BC	CAN	49.06	124.46	150	B	8.97	1986	64.0	
6782360.0	1967	PACKWOOD	WA	USA	46.34	121.40	655	B	8.35	1989	0.2	
6971750.0	1969	HORSEFLY	BC	CAN	52.18	121.19	820	B(15)	8.33	1986	40.0	
6981760.0	1969	EUGENE	OR	USA	44.01	123.23	210	B(16)	11.62	1986	30.0	
6981770.0	1969	HAPPY CAMP	CA	USA	41.57	123.30	975	B(15)	13.42	1989	41.2	
7175610.0	1971	HAT CREEK	BC	CAN	50.51	121.30	1000	B	12.01	1988	16.5	
7373390.0	1973	JOHNSON LAKE	BC	CAN	51.10	121.30	1070	B	11.47	1991	0.2	
7971820.0	1979	THADDEUS LAKE	BC	CAN	51.55	123.40	1130	B(10)	10.63	1991	62.5	
8370638.0	1983	CASSIDY	BC	CAN	49.02	123.52	45	B(10)	9.46	1990	90.0	
SPECIES 40.250 PSEUDOTSUGA MENZIESII var. GLAUCA (interior douglas-fir)												
6772340.0	1967	NELSON	BC	CAN	49.30	117.16	820	B	9.37	1986	48.0	
6871090.0	1968	PINETAN	BC	CAN	50.45	119.55	840	B	10.48	1989	8.5	
6981780.0	1969	COALDALE	CO	USA	38.20	105.50	2300	B(50)	13.39	1989	47.2	
6981790.0	1969	CLEAR CREEK	NM	USA	36.03	106.50	2870	B#	11.87	1989	39.5	B(10-100)
7172040.0	1971	ADAMS LAKE	BC	CAN	51.26	119.28	530	B	8.69	1989	46.5	
8285430.0	1982	OTERO COUNTY	NM	USA	33.00	105.30		N/A	13.84	1989	79.5	
8480009.0	1984	CLEAR CREEK	NM	USA	35.30	106.00		N/A	12.97	1989	82.0	
SPECIES 40.500 PTELEA TRIFOLIATA (hop-tree)												

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8330640.0	1983	FONTHILL	ON	CAN	43.02	79.17	190	B(3)	36.33	1985	51.0	GPC-RF
SPECIES 42.600 RHAMNUS FRANGULA (glossy buckthorn)												
8880704.0	1988	INGATORP DISTRICT		SWE	57.37	15.24	165	B(3)	18.57			
SPECIES 43.800 ROBINIA PSEUDOACACIA (black locust)												
8080200.0	1980			USA				N/A	20.29	1984	76.0	
8330025.0	1983	TORONTO	ON	CAN	43.41	79.23	122	B(3)	23.02	1984	55.0	
8431615.0	1984	ELIZABETHVILLE	ON	CAN	44.03	78.26	200	S	22.12	1986	98.5	PL
8431616.0	1984	ELIZABETHVILLE	ON	CAN	44.03	78.26	200	S	16.30	1986	83.5	PL
SPECIES 43.950 SABIN CHINENSIO												
8480983.0	1984	INNER MONGOLIA PROVINCE		CHN	40.00	111.00E		N/A	23.74	1985	0.1	
SPECIES 44.550 SAMBUCUS NIGRA (European elder)												
8880705.0	1988	MORLUNDA DISTRICT		SWE	57.16	15.55E	90	B(10)	4.22			
SPECIES 44.600 SAMBUCUS RACEMOSA (European red elder)												
8880703.0	1988	LOMMARYD DISTRICT		SWE	57.53	14.45E	240	B(20)	2.12			
SPECIES 44.840 SCHINUS PATAGONICUS												
8780167.0	1987	EL BOLSON, RIO NEGRO		ARG	41.50S	71.34	450	N/A	22.89			
SPECIES 44.870 SEQUOIADENDRON GIGANTEUM (giant sequoia)												
8181310.0	1981	CALIFORNIA	CA	USA				N/A	5.90	1991	25.2	
SPECIES 44.920 SORBUS AMERICANA (American mountain ash)												
8430060.0	1984	INTERSECT'N HWY 127 & 60	ON	CAN	45.29	78.11	400	B(3)	1.89	1984	21.5	
SPECIES 44.930 SORBUS AUCUPARIA (European mountain ash; Rowan tree)												
8330031.0	1983	TORONTO	ON	CAN	43.43	79.23	150	S	3.13	1984	34.0	
SPECIES 46.200 THUJA OCCIDENTALIS (eastern white cedar)												
6030510.0	1960	C.F.B. - CENTRE LAKE	ON	CAN	45.53	77.28	180	N/A	1.31	1991	0.1	
6430360.0	1964	P.N.F.I.	ON	CAN	45.57	77.25		N/A	1.29	1991	0.1	
8130230.0	1981	LAKE DORE	ON	CAN	45.37	77.07	175	B(5)	0.87	1983	13.0	
8233290.0	1982	GOLDEN LAKE	ON	CAN	45.35	77.14		B	1.16	1991	0.1	
8530191.0	1985	CLOYNE	ON	CAN	44.49	77.11		B(3)	1.33	1991	24.2	
8930141.0	1989	P.N.F.I.	ON	CAN	46.00	77.26			8.42	1990	4.5	
8930142.0	1989	P.N.F.I.	ON	CAN	46.00	77.26		S	1.07	1990	46.8	
8930143.0	1989	P.N.F.I.	ON	CAN	46.00	77.26		S	1.12	1990	48.0	
8930546.0	1989	P.N.F.I.	ON	CAN	46.00	77.26		S	1.09	1990	12.0	

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9130047.0	1991	PETAWAWA	ON	CAN	45.54	77.18		S	0.65			
9130049.0	1991	PETAWAWA	ON	CAN	45.54	77.16		B(3)	1.14			
9130050.0	1991	LAKE DORE	ON	CAN	45.37	77.06		S	1.26			
9130051.0	1991	LAKE DORE	ON	CAN	45.36	77.06		S	1.27			
9130052.0	1991	LAKE DORE	ON	CAN	45.37	77.13		S	1.76			
9130053.0	1991	LA PASSE	ON	CAN	45.49	76.46		B(15)	1.26			
9130054.0	1991	LA PASSE	ON	CAN	45.59	76.46		S	1.02			
SPECIES 46.400 THUJA PLICATA (western red cedar)												
7272310.0	1972	COWICHAN LAKE	BC	CAN	48.50	124.00	75	B	1.37	1991	0.1	
7473130.0	1974	SHUSWAP LAKE	BC	CAN	50.53	119.22	400	B	1.11	1991	0.1	
8370633.0	1983	LANTZVILLE	BC	CAN	49.14	124.00	90	B(6)	0.88	1989	0.8	
8370634.0	1983	YELLOW POINT	BC	CAN	49.03	123.48	61	B(15)	0.95	1989	0.1	
8871106.0	1988	YELLOW POINT	BC	CAN	49.03	123.48		N/A	0.99	1990	38.5	
SPECIES 47.100 TILIA AMERICANA (basswood; American linden)												
6430380.0	1964	LAKE DORE	ON	CAN	45.38	77.04		N/A	106.72			
7031680.0	1970	CENTRE LAKE	ON	CAN	45.57	77.30	190	S	157.83			
8530066.0	1985	PEMBROKE	ON	CAN	45.49	77.07	110	B(5)	139.09	1986	5.0	
8930018.0	1989	P.N.F.I.	ON	CAN	46.00	77.25		S	134.77			
8930019.0	1989	P.N.F.I.	ON	CAN	46.00	77.25		S	148.95			
SPECIES 47.400 TILIA X EUCHLORA (Crimea linden)												
8330067.0	1983	TORONTO	ON	CAN	43.42	79.23	150	S				PL
SPECIES 48.100 TSUGA CANADENSIS (eastern hemlock)												
6930330.0	1969	KIOSK	ON	CAN	46.02	78.44	370	S	2.11	1991	0.1	
6930410.0	1969	KIOSK	ON	CAN	46.02	78.44	370	S	2.96	1991	0.1	
8430073.0	1984	ALGONQUIN PARK	ON	CAN	45.17	78.11	490	S	2.78	1984	90.5	
8430074.0	1984	ALGONQUIN PARK	ON	CAN	45.17	78.11	490	S	2.80	1984	82.0	
8430075.0	1984	DENBIGH	ON	CAN	45.09	77.10	300	B(3)	3.13	1991	11.0	
8930041.0	1989	P.N.F.I.	ON	CAN	46.00	77.27		S	3.36	1989	38.8	
8930042.0	1989	P.N.F.I.	ON	CAN	46.00	77.27		S	2.79	1989	63.8	
8930043.0	1989	P.N.F.I.	ON	CAN	46.00	77.27		S	2.81	1989	46.0	
8930044.0	1989	P.N.F.I.	ON	CAN	46.00	77.27		S	2.50	1989	34.0	
8930045.0	1989	P.N.F.I.	ON	CAN	46.00	77.27		S	3.25	1989	66.0	
SPECIES 48.400 TSUGA HETEROPHYLLA (western hemlock)												
7272030.0	1972	QUEEN CHARLOTTE ISLANDS	BC	CAN	53.35	132.20	75	B	1.60	1989	2.2	
7272260.0	1972	SOOKE #2, VANCOUVER IS.	BC	CAN	48.22	123.44	4	B	2.37	1989	0.2	
8871108.0	1988	NORTHWEST BAY	BC	CAN	49.13	124.22	600	B(6)	1.72	1990	75.8	
8871109.0	1988	MATTHEW LAKE	BC	CAN	49.28	124.54	900	N/A	1.99	1990	17.0	
SPECIES 48.500 TSUGA MERTENSIANA (mountain hemlock)												
8270555.0	1982	SPROAT LAKE	BC	CAN	49.18	125.07	900	B(10)	2.07	1989	58.5	
8270556.0	1982	THEODOSIA INLET	BC	CAN	50.10	126.30	1150	B(4)	2.34	1989	26.0	
8871107.0	1988	GRASSIE MOUNTAIN	BC	CAN	49.08	124.40	900	B	3.02	1990	44.2	

SEEDBANK NUMBER	YEAR COLL	PROVENANCE	PV	CTRY	LAT	LONG	ELEV (m)	COLL TYPE	1000 SdWt	YEAR TEST	% GERM	REMARKS
8970433.0		VALENTINE MOUNTAIN	BC	CAN	48.32	123.54	890	B(12)	7.11	1990	74.0	
SPECIES 49.100 ULMUS AMERICANA [white (American) elm]												
7830520.0	1978	PEMBROKE	ON	CAN	45.48	77.08	150	S	6.83	1984	38.0	PI
8430032.0	1984	PEMBROKE	ON	CAN	45.48	77.08	150	S	4.47	1990	0.1	PL
8430033.0	1984	PEMBROKE	ON	CAN	45.48	77.08	150	S	5.87	1984	33.0	PI
8730163.0	1987	PEMBROKE	ON	CAN	45.48	77.08	150	S	4.62	1987	33.2	PL
8730164.0	1987	PEMBROKE	ON	CAN	45.48	77.08	150	S	4.35	1987	28.0	PI
8730175.0	1987	PEMBROKE	ON	CAN	45.48	77.08	150	B(2)	5.56	1987	42.8	PL
SPECIES 49.115 ULMUS GLABRA (Scotch elm)												
8580008.0	1985	HELSINKI		FIN	60.16	25.00E		B(25)	10.35	1985	29.0	
SPECIES 49.120 ULMUS LAEVIS (European white elm)												
8580009.0	1985	HELSINKI		FIN	60.16	25.00E		B(6)	6.37	1985	60.0	
SPECIES 50.300 VIBURNUM OPULUS (European cranberry)												
8880702.0	1988	INGATORP DISTRICT		SWE	57.38	15.22E	220	B(5)	21.58			

APPENDIX A/
ANNEXE A
Key for country codes[1]
Codes de pays[2]

Country Code/ Code de pays	Meaning/ Signification
ARG	Argentina/Argentine
AUT	Austria/Autriche
BEL	Belgium/Belgique
BLG	Bulgaria/Bulgarie
CAN	Canada
CHN	China/Chine
COL	Columbia/Colombie
CSK	Czechoslovakia/Tchécoslovaquie
CUB	Cuba
DEU	Germany/Allemagne
DNK	Denmark/Danemark
FIN	Finland/Finlande
FRA	France
GTM	Guatemala
HND	Honduras
ITA	Italy/Italie
JPN	Japan/Japon
MEX	Mexico/Mexique
NOR	Norway/Norvège
NPL	Nepal/Népal
NZL	New Zealand/Nouvelle-Zélande
PAK	Pakistan
POL	Poland/Pologne
ROM	Romania/Roumanie
SCO	Scotland/Écosse
SUN	USSR/URSS
SWE	Sweden/Suède
THA	Thailand/Thaïlande
TUR	Turkey/Turquie
USA	United States/États-Unis
YUG	Yugoslavia/Yougoslavie

[1]From International Organization for Standardization (1981).
[2]De l'Organisation internationale de normalisation (1981).

APPENDIX B/ANNEXE B

Codes for Canadian provinces/Codes de provinces canadiennes

Province code/ Code de province	Meaning/ Signification
AB	Alberta
BC	British Columbia/Colombie-Britannique
MB	Manitoba
NB	New Brunswick/Nouveau-Brunswick
NF	Newfoundland/Terre-Neuve
NS	Nova Scotia/Nouvelle-Écosse
ON	Ontario
PE	Prince Edward Island/Île-du-Prince-Édouard
PQ	Québec
SK	Saskatchewan
YT	Yukon Territory/Territoire du Yukon

Codes for states of the USA/Codes d'États de USA

State code/ Code d'État	Meaning/ Signification
AK	Alaska
AZ	Arizona
CA	California/Californie
CO	Colorado
GA	Georgia
ID	Idaho
ME	Maine
MI	Michigan
MT	Montana
NC	North Carolina/Caroline du Nord
ND	North Dakota/Dakota du Nord
NH	New Hampshire
NM	New Mexico/Nouveau-Mexique
NY	New York
OR	Oregon
WA	Washington
WI	Wisconsin